# EXHIBIT 74

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## IN THE UNITED STATES DISTRICT COURT FOR THE DISTRICT OF NEW JERSEY

IN RE: JOHNSON & JOHNSON TALCUM

POWDER PRODUCTS MARKETING, SALES

PRACTICES, AND PRODUCTS LIABILITY

LITIGATION

MDL NO. 16-2738(FLW)(LGH)

THIS DOCUMENT RELATES TO

ALL CASES VOLUME II

The Videotaped Deposition of GHASSAN SAED, Ph.D.,
Taken at 1 Park Avenue,
2nd Floor Conference Room,
Detroit, Michigan,
Commencing at 8:30 a.m.,
Thursday, February 14, 2019,
Before Jennifer L. Ward, CSR-3717.

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1	APPEARANCES:	1	APPEARANCES: (Continued)
2	D A PLOY OFFICE A	2	
3	P. LEIGH O'DELL, ESQ. and	3	JAMES W. MIZGALA, ESQ.
4	MARGARET M. THOMPSON, M.D., J.D.	4	Tucker Ellis
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6	218 Commerce Street	6	Chicago, Illinois 60606
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8	(334) 269-2343	8	James.mizgala@tuckerellis.com
9	leigh.odell@beasleyallen.com	9	Appearing on behalf of Defendant PTI.
10	Margaret.Thompson@BeasleyAllen.com	10	THOMAS T. LOCKE, EGO
11	Appearing on behalf of Plaintiffs.	11	THOMAS T. LOCKE, ESQ.
12	DANIEL DA LADRIGUE DO	12	Seyfarth Shaw, LLP
13	DANIEL R. LAPINSKI, ESQ.	13	975 F Street, N.W.
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18	(732) 855-6066	18	ALGO PREGENTE
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20	Appearing on behalf of Plaintiffs.	20	Jeff Gudme, Videographer
21		21	
22	(A 246)	22	
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3	MARK C. HEGARTY, ESQ.	3	WITNESS PAGE
4	Shook, Hardy & Bacon, LLP	4	GHASSAN SAED, Ph.D.
5	2555 Grand Boulevard	5	
6	Kansas City, Missouri 64108	6	EXAMINATION BY MR. HEGARTY (Continuing) 359
7	(816) 474-6550	7	EXAMINATION BY MS. O'DELL 549
8	mhegarty@shb.com	8	REEXAMINATION BY MR. HEGARTY 557
9	Appearing on behalf of Defendant Johnson &	9	EXAMINATION BY MR. LOCKE 564
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11	voimbon.	11	
12	GEOFFREY M. WYATT, ESQ.	12	INDEX TO EXHIBITS
13	Skadden, Arps, Slate, Meagher & Flom, LLP	13	
14	1440 New York Avenue N.W.	14	EXHIBIT PAGE
15	Washington, D.C. 20005	15	11102
16	(202) 371-7008	16	EXHIBIT 22
17	geoffrey.wyatt@skadden.com	17	Invoice 361
18	Appearing on behalf of Defendant Johnson &	18	
19	Johnson.	19	EXHIBIT 23
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21 22	(Appearances continued on Page 347.)	22	

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8 9	EXHIBIT 26 F-098 Abstract 415	8 9 EXHIBIT 37
10	r-098 Abstract 413	10 Reproductive Sciences,
11	EXHIBIT 27	Submission Date of January 3, 2019 490
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1	INDEX TO EXHIBITS	1	Detroit, Michigan
2		2	Thursday, February 14, 2019
3	EXHIBIT PAGE	3	About 8:43 a.m.
4		4	THE VIDEOGRAPHER: On the record.
5	EXHIBIT 47	5	This is the continued video deposition of Ghassan Saed,
6	Form B for Calendar Year 2017 519	6	being taken in Detroit, Michigan. Today is
7		7	February 14th, 2019. The time on the record is
8	EXHIBIT 48	8	approximately 8:43 a.m. Eastern time.
9	E-Mail Dated February 7, 2019 522	9	At this time will the attorneys
10		10	please identify themselves and affiliations, and then
11	EXHIBIT 49	11	our court reporter will swear in the witness.
12	E-Mail Forwarded by Amy Harper on	12	MS. O'DELL: Leigh O'Dell,
13	February 11, 2019 523	13	Beasley Allen, for the Plaintiffs.
14		14	MS. THOMPSON: Margaret Thompson,
15	EXHIBIT 50	15	Beasley Allen, Plaintiffs.
16	GWAS Catalog Search 528	16	MR. LAPINSKI: Daniel Lapinski, the
17		17	Wilentz Law Firm, the Plaintiffs.
18	EXHIBIT 7	18	MR. HEGARTY: Mark Hegarty for the
19	Original Manuscript (Previously Marked)	19	Johnson & Johnson Defendants.
20		20	MR. WYATT: Geoffrey Wyatt from
21	EXHIBIT 16	21	Skadden for the J & J Defendants.
22	Report (Previously Marked)	22	MR. LOCKE: Tom Locke from
23		23	Seyfarth Shaw for the Personal Care Products Council.
24	(I 1 - 4 E-1'1'4 - 4' - 1 - P - 254)	24	MR. MIZGALA: James Mizgala for PTI.
25	(Index to Exhibits continued on Page 354.)	25	MS. O'DELL: Before we begin, let me
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	Page 356		Page 358
1	INDEX TO EXHIBITS	1	just put a statement on the record. Today's date is
1 2		1 2	
			just put a statement on the record. Today's date is February the 14th, 2019.  Yesterday, Imerys Talc America filed
2 3 4	INDEX TO EXHIBITS  EXHIBIT PAGE	2 3 4	just put a statement on the record. Today's date is February the 14th, 2019.  Yesterday, Imerys Talc America filed bankruptcy. Imerys Talc America has been a principal
2 3 4 5	INDEX TO EXHIBITS  EXHIBIT PAGE  EXHIBIT 24	2 3 4 5	just put a statement on the record. Today's date is February the 14th, 2019.  Yesterday, Imerys Talc America filed bankruptcy. Imerys Talc America has been a principal Defendant in this litigation, and their interests are
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2 3 4 5 6 7 8	INDEX TO EXHIBITS  EXHIBIT PAGE  EXHIBIT 24 Preliminary Study (Previously Marked)  EXHIBIT 1	2 3 4 5 6 7 8	just put a statement on the record. Today's date is February the 14th, 2019.  Yesterday, Imerys Talc America filed bankruptcy. Imerys Talc America has been a principal Defendant in this litigation, and their interests are inextricably intertwined with Johnson & Johnson Defendants and others. There's a stay on all matters, as we understand it, for matters related to Imerys.
2 3 4 5 6 7 8	INDEX TO EXHIBITS  EXHIBIT PAGE  EXHIBIT 24 Preliminary Study (Previously Marked)  EXHIBIT 1 Lab Notebook for the Data Reported	2 3 4 5 6 7 8	just put a statement on the record. Today's date is February the 14th, 2019.  Yesterday, Imerys Talc America filed bankruptcy. Imerys Talc America has been a principal Defendant in this litigation, and their interests are inextricably intertwined with Johnson & Johnson Defendants and others. There's a stay on all matters, as we understand it, for matters related to Imerys.  We were here in Detroit yesterday
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2 3 4 5 6 7 8 9 10	INDEX TO EXHIBITS  EXHIBIT PAGE  EXHIBIT 24 Preliminary Study (Previously Marked)  EXHIBIT 1 Lab Notebook for the Data Reported	2 3 4 5 6 7 8 9 10	just put a statement on the record. Today's date is February the 14th, 2019.  Yesterday, Imerys Talc America filed bankruptcy. Imerys Talc America has been a principal Defendant in this litigation, and their interests are inextricably intertwined with Johnson & Johnson Defendants and others. There's a stay on all matters, as we understand it, for matters related to Imerys.  We were here in Detroit yesterday preparing, were ready to proceed. We were ready yesterday to proceed with Dr. Saed. We alerted to the
2 3 4 5 6 7 8 9 10 11	INDEX TO EXHIBITS  EXHIBIT PAGE  EXHIBIT 24 Preliminary Study (Previously Marked)  EXHIBIT 1 Lab Notebook for the Data Reported	2 3 4 5 6 7 8 9 10 11	just put a statement on the record. Today's date is February the 14th, 2019.  Yesterday, Imerys Talc America filed bankruptcy. Imerys Talc America has been a principal Defendant in this litigation, and their interests are inextricably intertwined with Johnson & Johnson Defendants and others. There's a stay on all matters, as we understand it, for matters related to Imerys.  We were here in Detroit yesterday preparing, were ready to proceed. We were ready yesterday to proceed with Dr. Saed. We alerted to the court to the stay and asked the court's guidance as to
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2 3 4 5 6 7 8 9 10 11 12 13 14 15	INDEX TO EXHIBITS  EXHIBIT PAGE  EXHIBIT 24 Preliminary Study (Previously Marked)  EXHIBIT 1 Lab Notebook for the Data Reported	2 3 4 5 6 7 8 9 10 11 12 13 14	just put a statement on the record. Today's date is February the 14th, 2019.  Yesterday, Imerys Talc America filed bankruptcy. Imerys Talc America has been a principal Defendant in this litigation, and their interests are inextricably intertwined with Johnson & Johnson Defendants and others. There's a stay on all matters, as we understand it, for matters related to Imerys.  We were here in Detroit yesterday preparing, were ready to proceed. We were ready yesterday to proceed with Dr. Saed. We alerted to the court to the stay and asked the court's guidance as to whether the deposition should proceed, in light of the fact that Imerys is not present today and not represented. The court directed us to proceed.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	INDEX TO EXHIBITS  EXHIBIT PAGE  EXHIBIT 24 Preliminary Study (Previously Marked)  EXHIBIT 1 Lab Notebook for the Data Reported	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	just put a statement on the record. Today's date is February the 14th, 2019.  Yesterday, Imerys Talc America filed bankruptcy. Imerys Talc America has been a principal Defendant in this litigation, and their interests are inextricably intertwined with Johnson & Johnson Defendants and others. There's a stay on all matters, as we understand it, for matters related to Imerys.  We were here in Detroit yesterday preparing, were ready to proceed. We were ready yesterday to proceed with Dr. Saed. We alerted to the court to the stay and asked the court's guidance as to whether the deposition should proceed, in light of the fact that Imerys is not present today and not represented. The court directed us to proceed.  Former counsel for Imerys, Mark Silver, represented to the court that he could
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	INDEX TO EXHIBITS  EXHIBIT PAGE  EXHIBIT 24 Preliminary Study (Previously Marked)  EXHIBIT 1 Lab Notebook for the Data Reported	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	just put a statement on the record. Today's date is February the 14th, 2019.  Yesterday, Imerys Talc America filed bankruptcy. Imerys Talc America has been a principal Defendant in this litigation, and their interests are inextricably intertwined with Johnson & Johnson Defendants and others. There's a stay on all matters, as we understand it, for matters related to Imerys.  We were here in Detroit yesterday preparing, were ready to proceed. We were ready yesterday to proceed with Dr. Saed. We alerted to the court to the stay and asked the court's guidance as to whether the deposition should proceed, in light of the fact that Imerys is not present today and not represented. The court directed us to proceed.  Former counsel for Imerys, Mark Silver, represented to the court that he could weigh Imerys' rights as to the continuation of the
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4 (Pages 355 to 358)

	Page 359		Page 361
1	February 13th, for Johnson & Johnson's position with	1	we submitted to SGO.
2	regard to the Imerys filing in today's deposition.	2	Q. Anyone else?
3	MR. LOCKE: We join in that.	3	A. No.
4	MR. HEGARTY: Okay. Ready? I don't	4	Q. Have you prepared any additional invoices of
5	know if you need to reswear in the witness. Okay.	5	your work and let me back up. We were provided with
6	GHASSAN SAED, Ph.D.,	6	a copy of an additional invoice of your work late last
7	having first been duly sworn, was examined and	7	night. I'm going to mark as Exhibit Number 22 a copy
8	testified on his oath as follows:	8	of that invoice.
9	EXAMINATION BY MR. HEGARTY:	9	DEPOSITION EXHIBIT 22
10	Q. Good morning, Dr. Saed.	10	Invoice
11	A. Good morning.	11	WAS MARKED BY THE REPORTER
12	Q. Did you review any documents to prepare to	12	FOR IDENTIFICATION
13	testify here today?	13	BY MR. HEGARTY:
14	A. Maybe my report.	14	Q. Is that the the most recent invoice that
15	Q. Did you review any other documents besides	15	you prepared for purposes of your work on this
16	your report to prepare to testify today?	16	litigation?
17	A. Anything specific, no.	17	A. Yes.
18	Q. Did you talk to anyone outside of	18	Q. Has that invoice been paid?
19	Plaintiffs' counsel to prepare to testify today?	19	A. Yes.
20	A. No.	20	Q. You mentioned when we were together last
21	Q. Did you talk with any of the of the of	21	month that you were asked to write an editorial to an
22	your co-authors on your manuscript or who were involved	22	open access journal on talc and oxidative stress. Have
23	in preparing the lab notebooks about either your	23	you started writing that editorial?
24	deposition last month or your deposition today?	24	A. Not yet.
25	A. Anything specific? Like talk about what?	25	Q. Did you or anyone else add to or change
	Page 360		
	Page 300		Page 362
1	Q. Talk about what was discussed at your	1	Page 362 anything in the lab notebooks produced at your last
1 2		1 2	_
	Q. Talk about what was discussed at your		anything in the lab notebooks produced at your last
2	<ul><li>Q. Talk about what was discussed at your deposition</li><li>A. No.</li><li>Q the subject of your deposition?</li></ul>	2	anything in the lab notebooks produced at your last deposition, Exhibits 2 and 3?  A. No.  Q. We received prior to your deposition a
2	<ul> <li>Q. Talk about what was discussed at your deposition</li> <li>A. No.</li> <li>Q the subject of your deposition?</li> <li>A. With my lab worker, yes. I was telling them</li> </ul>	2	anything in the lab notebooks produced at your last deposition, Exhibits 2 and 3?  A. No.  Q. We received prior to your deposition a number of additional documents that you provided to
2 3 4	<ul><li>Q. Talk about what was discussed at your deposition</li><li>A. No.</li><li>Q the subject of your deposition?</li></ul>	2 3 4	anything in the lab notebooks produced at your last deposition, Exhibits 2 and 3?  A. No.  Q. We received prior to your deposition a number of additional documents that you provided to counsel for Plaintiffs that I'd like to walk through.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Q. Talk about what was discussed at your deposition A. No. Q the subject of your deposition? A. With my lab worker, yes. I was telling them about the whiteout in the notebook. Q. What lab worker? A. My research assistant. Q. What's their name? A. Rong. We call her Florie, so Q. Did you talk with anyone else outside of Plaintiffs' counsel about your deposition last month or your deposition today besides Flora? A. No. Q. Since your last deposition, have you spoken with anyone outside of Plaintiffs' counsel about your talc testing or your manuscripts, other than your lab personnel? In other words, anyone outside of Wayne State or outside of our lab personnel, have you talked with them about the testing that you did or your manuscript? A. The testing that I did, I didn't. About the manuscript, I talked to SRI. Q. Anyone else?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	anything in the lab notebooks produced at your last deposition, Exhibits 2 and 3?  A. No.  Q. We received prior to your deposition a number of additional documents that you provided to counsel for Plaintiffs that I'd like to walk through. The first document we received I'm going to mark as Exhibit 23, which is a copy of pages from one of your lab notebooks that were produced last month.  DEPOSITION EXHIBIT 23  Copy of Pages From Lab Notebook  WAS MARKED BY THE REPORTER  FOR IDENTIFICATION  BY MR. HEGARTY:  Q. Is that correct?  A. This is which one is this?  Q. I believe this would be the pilot study of the preliminary trial that you did to, as you said, tune up the technique for your testing for your manuscript.  A. Exhibit 3?  MS. O'DELL: Object to the form.  BY MR. HEGARTY:  Q. It should be it's the first
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	Page 363		Page 365
1	BY MR. HEGARTY:	1	Q. Did you
2	Q 30 pages or so of Exhibit 3, correct?	2	A. It's very
3	MS. O'DELL: Object to the form. I	3	Q. I'm sorry.
4	think you're referring to Exhibit 2.	4	A. It's a very labile molecule.
5	MR. HEGARTY: Exhibit 2, yes.	5	Q. Did you conclude that the 500 microgram per
6	BY MR. HEGARTY:	6	milliliter and the thousand microgram per liter dosages
7	Q. You should be at Exhibit 2.	7	were toxic to the cells?
8	A. Exhibit 2?	8	A. Not necessarily. We just lost the RNA.
9	Q. Yes.	9	From our practice working with RNA, this is a common
10	A. The first 29 pages.	10	problem working with RNA. RNA is a very labile
11	Q. The first 29 pages; is that correct?	11	molecule, and it's susceptible to degradation, and so
12	A. Oh, this one here?	12	the RNA degraded, and we did not continue, and we
13	Q. Of Exhibit 2.	13	started this other experiment.
14	A. Okay.	14	Q. If you turn over to page 24
15	Q. Is that right?	15	A. 24.
16	A. Yes. Yes. I know now.	16	Q of that part of the notebook.
17	Q. As you said last month, those pages	17	A. Um-hum.
18	represent a preliminary trial or a pilot study for the	18	Q. You have tables
19	testing that you ultimately did that's described in	19	A. Yes.
20	your manuscript and your expert report, correct?	20	Q that report data for a thousand.
21	A. This was an attempt to yes.	21	A. Correct.
22	Q. Okay. And again, those pages, Exhibit 23,	22	Q. How is that possible?
23	are from original notebook number two, correct,	23	A. Okay. So this experiment is from part one.
24	Exhibit Number 2?	24	This is the poster that we submitted, which is this.
25	A. Yes.	25	Exhibit 3, this data belonged to the first first
	Page 364		Page 366
1	Q. If you look in Exhibit 23 at page two.		
	Q. If you look in Exhibit 23 at page two.	1	trial experiment that we did. It's misplaced here.
2	A. Yes. This page?	1 2	trial experiment that we did. It's misplaced here. That's not the right place for it. It's right here.
2	A. Yes. This page?	2	That's not the right place for it. It's right here.  MS. O'DELL: Dr. Saed, you're
2	<ul><li>A. Yes. This page?</li><li>Q. Yes. There are 500 microliter and 1,000</li></ul>	2	That's not the right place for it. It's right here.
2 3 4	A. Yes. This page? Q. Yes. There are 500 microliter and 1,000 microliter treatments?	2 3 4	That's not the right place for it. It's right here.  MS. O'DELL: Dr. Saed, you're pointing to a page in Exhibit 3?
2 3 4 5	<ul><li>A. Yes. This page?</li><li>Q. Yes. There are 500 microliter and 1,000 microliter treatments?</li><li>A. Micrograms.</li></ul>	2 3 4 5	That's not the right place for it. It's right here.  MS. O'DELL: Dr. Saed, you're pointing to a page in Exhibit 3?  THE WITNESS: This is Exhibit
2 3 4 5 6	<ul> <li>A. Yes. This page?</li> <li>Q. Yes. There are 500 microliter and 1,000 microliter treatments?</li> <li>A. Micrograms.</li> <li>Q. Micrograms, I'm sorry. There there are</li> </ul>	2 3 4 5 6	That's not the right place for it. It's right here.  MS. O'DELL: Dr. Saed, you're pointing to a page in Exhibit 3?  THE WITNESS: This is Exhibit Exhibit 3. That's the poster we submitted at SRI, it's
2 3 4 5 6 7	<ul> <li>A. Yes. This page?</li> <li>Q. Yes. There are 500 microliter and 1,000 microliter treatments?</li> <li>A. Micrograms.</li> <li>Q. Micrograms, I'm sorry. There there are 500 let me start over. There are 500 and 1,000</li> </ul>	2 3 4 5 6 7	That's not the right place for it. It's right here.  MS. O'DELL: Dr. Saed, you're pointing to a page in Exhibit 3?  THE WITNESS: This is Exhibit Exhibit 3. That's the poster we submitted at SRI, it's right here, and this data exactly is there. It's not
2 3 4 5 6 7 8	<ul> <li>A. Yes. This page?</li> <li>Q. Yes. There are 500 microliter and 1,000 microliter treatments?</li> <li>A. Micrograms.</li> <li>Q. Micrograms, I'm sorry. There there are 500 let me start over. There are 500 and 1,000 micrograms per milliliter of treatments shown on that</li> </ul>	2 3 4 5 6 7 8	That's not the right place for it. It's right here.  MS. O'DELL: Dr. Saed, you're pointing to a page in Exhibit 3?  THE WITNESS: This is Exhibit Exhibit 3. That's the poster we submitted at SRI, it's right here, and this data exactly is there. It's not supposed to be here.
2 3 4 5 6 7 8	<ul> <li>A. Yes. This page?</li> <li>Q. Yes. There are 500 microliter and 1,000 microliter treatments?</li> <li>A. Micrograms.</li> <li>Q. Micrograms, I'm sorry. There there are 500 let me start over. There are 500 and 1,000 micrograms per milliliter of treatments shown on that page. Where is the data for the 500 microgram per</li> </ul>	2 3 4 5 6 7 8	That's not the right place for it. It's right here.  MS. O'DELL: Dr. Saed, you're pointing to a page in Exhibit 3?  THE WITNESS: This is Exhibit Exhibit 3. That's the poster we submitted at SRI, it's right here, and this data exactly is there. It's not supposed to be here.  MS. O'DELL: What what page in
2 3 4 5 6 7 8 9	A. Yes. This page? Q. Yes. There are 500 microliter and 1,000 microliter treatments? A. Micrograms. Q. Micrograms, I'm sorry. There there are 500 let me start over. There are 500 and 1,000 micrograms per milliliter of treatments shown on that page. Where is the data for the 500 microgram per milliliter tests?	2 3 4 5 6 7 8 9	That's not the right place for it. It's right here.  MS. O'DELL: Dr. Saed, you're pointing to a page in Exhibit 3?  THE WITNESS: This is Exhibit Exhibit 3. That's the poster we submitted at SRI, it's right here, and this data exactly is there. It's not supposed to be here.  MS. O'DELL: What what page in Exhibit 3 is the poster?
2 3 4 5 6 7 8 9 10	<ul> <li>A. Yes. This page?</li> <li>Q. Yes. There are 500 microliter and 1,000 microliter treatments?</li> <li>A. Micrograms.</li> <li>Q. Micrograms, I'm sorry. There there are 500 let me start over. There are 500 and 1,000 micrograms per milliliter of treatments shown on that page. Where is the data for the 500 microgram per milliliter tests?</li> <li>A. So this experiment, we started to treat</li> </ul>	2 3 4 5 6 7 8 9 10	That's not the right place for it. It's right here.  MS. O'DELL: Dr. Saed, you're pointing to a page in Exhibit 3?  THE WITNESS: This is Exhibit Exhibit 3. That's the poster we submitted at SRI, it's right here, and this data exactly is there. It's not supposed to be here.  MS. O'DELL: What what page in Exhibit 3 is the poster?  THE WITNESS: It's 62 and 63. This
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Yes. This page? Q. Yes. There are 500 microliter and 1,000 microliter treatments? A. Micrograms. Q. Micrograms, I'm sorry. There there are 500 let me start over. There are 500 and 1,000 micrograms per milliliter of treatments shown on that page. Where is the data for the 500 microgram per milliliter tests? A. So this experiment, we started to treat cells with two doses, 500 and a thousand. And this experiment here we did not continue because the RNA was degraded, and we couldn't do any further testing with it. So that's why we stopped here, and we started a new one on on on page the actual manuscript work.  So those doses were not the cells were not good, they were not healthy, and they didn't tolerate this treatment, and this is why we	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	That's not the right place for it. It's right here.  MS. O'DELL: Dr. Saed, you're pointing to a page in Exhibit 3?  THE WITNESS: This is Exhibit Exhibit 3. That's the poster we submitted at SRI, it's right here, and this data exactly is there. It's not supposed to be here.  MS. O'DELL: What what page in Exhibit 3 is the poster?  THE WITNESS: It's 62 and 63. This here, right here.  BY MR. HEGARTY:  Q. Okay. We'll come back to that.  A. Exact same data. Q. Okay.  A. So yes, we tried we tried a thousand, and we tried the 500, that was our initial work, because we always when we do treatment like this, we always start with the high dose, and then we titrate it down
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Yes. This page? Q. Yes. There are 500 microliter and 1,000 microliter treatments? A. Micrograms. Q. Micrograms, I'm sorry. There there are 500 let me start over. There are 500 and 1,000 micrograms per milliliter of treatments shown on that page. Where is the data for the 500 microgram per milliliter tests? A. So this experiment, we started to treat cells with two doses, 500 and a thousand. And this experiment here we did not continue because the RNA was degraded, and we couldn't do any further testing with it. So that's why we stopped here, and we started a new one on on on page the actual manuscript work.  So those doses were not the cells were not good, they were not healthy, and they didn't tolerate this treatment, and this is why we think we lost them, because they didn't tolerate this	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	That's not the right place for it. It's right here.  MS. O'DELL: Dr. Saed, you're pointing to a page in Exhibit 3?  THE WITNESS: This is Exhibit Exhibit 3. That's the poster we submitted at SRI, it's right here, and this data exactly is there. It's not supposed to be here.  MS. O'DELL: What what page in Exhibit 3 is the poster?  THE WITNESS: It's 62 and 63. This here, right here. BY MR. HEGARTY: Q. Okay. We'll come back to that. A. Exact same data. Q. Okay. A. So yes, we tried we tried a thousand, and we tried the 500, that was our initial work, because w always when we do treatment like this, we always start with the high dose, and then we titrate it down to lower dose.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yes. This page? Q. Yes. There are 500 microliter and 1,000 microliter treatments? A. Micrograms. Q. Micrograms, I'm sorry. There there are 500 let me start over. There are 500 and 1,000 micrograms per milliliter of treatments shown on that page. Where is the data for the 500 microgram per milliliter tests? A. So this experiment, we started to treat cells with two doses, 500 and a thousand. And this experiment here we did not continue because the RNA was degraded, and we couldn't do any further testing with it. So that's why we stopped here, and we started a new one on on on page the actual manuscript work.  So those doses were not the cells were not good, they were not healthy, and they didn't tolerate this treatment, and this is why we think we lost them, because they didn't tolerate this treatment. We're not sure why.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	That's not the right place for it. It's right here.  MS. O'DELL: Dr. Saed, you're pointing to a page in Exhibit 3?  THE WITNESS: This is Exhibit Exhibit 3. That's the poster we submitted at SRI, it's right here, and this data exactly is there. It's not supposed to be here.  MS. O'DELL: What what page in Exhibit 3 is the poster?  THE WITNESS: It's 62 and 63. This here, right here. BY MR. HEGARTY: Q. Okay. We'll come back to that. A. Exact same data. Q. Okay. A. So yes, we tried we tried a thousand, and we tried the 500, that was our initial work, because we always when we do treatment like this, we always start with the high dose, and then we titrate it down to lower dose. Q. If we stay on page two of Exhibit 23, or

	Page 367		Page 369
1	A. Okay.	1	A. No.
2	Q. You show on this page using baby powder and	2	Q 1,000 microgram per milliliters doses?
3	talc. Do you see that?	3	A. Okay.
4	A. Where?	4	MS. O'DELL: Just object to form.
5	Q. If you look in the experiments, you list	5	Let him finish.
6	500 micrograms per milliliter of talc. You also list	6	THE WITNESS: Okay.
7	500 micrograms per milliliter of baby powder that you	7	MS. O'DELL: And then as you're
8	designate as BP. Do you see that?	8	going back and forth, Dr. Saed, in talking about
9	A. Yes.	9	specific pages, just make sure you're really clear
10	Q. So in this experiment, did you use Johnson	10	THE WITNESS: Yeah.
11	baby powder and another manufacturer's talc?	11	MS. O'DELL: what you're
12	A. Yes, Fisher.	12	referring to so it will it will come through on the
13	Q. I'm sorry?	13	transcript.
14	A. Fisher.	14	THE WITNESS: Okay. So again, I
15	Q. In fact, you show pictures of both	15	forgot, what was the question?
16	A. Correct.	16	BY MR. HEGARTY:
17	Q on the page before?	17	Q. Did you generate RNA extraction data for the
18	A. Correct.	18	500 and a thousand microgram per milliliter samples?
19	Q. Is there a breakdown of data in this	19	A. No, nothing not from this study.
20	notebook between the baby powder and the talc?	20	Q. In looking at pages six and seven, for what
21	A. We did not continue this experiment because	21	samples was this RNA extraction data created? What d
22	we didn't get RNA, so that's why the first part of	22	they correspond to?
23	the of the experiment was done with Fisher, and the	23	A. Here. The ID is right here.
24	manuscript was done with baby powder. We did not	24	MS. O'DELL: What page, sir?
25	continue that because we didn't get RNA. And this is	25	THE WITNESS: Page two.
	Page 368		Page 370
1	Page 368 very common.	1	Page 370 BY MR. HEGARTY:
1 2		1 2	
	very common.		BY MR. HEGARTY:
2	very common.  Q. On pages six and seven, you show RNA	2	BY MR. HEGARTY: Q. Well, you said
2	very common.  Q. On pages six and seven, you show RNA extraction data?	2 3	BY MR. HEGARTY: Q. Well, you said A. Page seven, you have 267, 269, 273, yes?
2 3 4	very common.  Q. On pages six and seven, you show RNA extraction data?  A. Yes.	2 3 4	BY MR. HEGARTY: Q. Well, you said A. Page seven, you have 267, 269, 273, yes? Q. Yes.
2 3 4 5	very common.  Q. On pages six and seven, you show RNA extraction data?  A. Yes.  Q. Did you not generate any RNA extraction data	2 3 4 5	BY MR. HEGARTY: Q. Well, you said A. Page seven, you have 267, 269, 273, yes? Q. Yes. A. And then on the next page, you have it
2 3 4 5 6	very common.  Q. On pages six and seven, you show RNA extraction data?  A. Yes.  Q. Did you not generate any RNA extraction data for the 500 and the thousand milliliter per microgram	2 3 4 5 6	BY MR. HEGARTY:  Q. Well, you said  A. Page seven, you have 267, 269, 273, yes?  Q. Yes.  A. And then on the next page, you have it has everything has a code next to it. So they're
2 3 4 5 6 7	very common.  Q. On pages six and seven, you show RNA extraction data?  A. Yes.  Q. Did you not generate any RNA extraction data for the 500 and the thousand milliliter per microgram tests?	2 3 4 5 6 7	BY MR. HEGARTY:  Q. Well, you said  A. Page seven, you have 267, 269, 273, yes?  Q. Yes.  A. And then on the next page, you have it has everything has a code next to it. So they're all labeled. See that?
2 3 4 5 6 7 8	very common.  Q. On pages six and seven, you show RNA extraction data?  A. Yes.  Q. Did you not generate any RNA extraction data for the 500 and the thousand milliliter per microgram tests?  A. Okay. So see the ID number?	2 3 4 5 6 7 8	BY MR. HEGARTY:  Q. Well, you said  A. Page seven, you have 267, 269, 273, yes?  Q. Yes.  A. And then on the next page, you have it has everything has a code next to it. So they're all labeled. See that?  Q. Yes. But if you look, Doctor, there is
2 3 4 5 6 7 8 9	very common.  Q. On pages six and seven, you show RNA extraction data?  A. Yes.  Q. Did you not generate any RNA extraction data for the 500 and the thousand milliliter per microgram tests?  A. Okay. So see the ID number?  Q. Yes.	2 3 4 5 6 7 8 9	BY MR. HEGARTY:  Q. Well, you said  A. Page seven, you have 267, 269, 273, yes?  Q. Yes.  A. And then on the next page, you have it has everything has a code next to it. So they're all labeled. See that?  Q. Yes. But if you look, Doctor, there is for example, 278, on page two, a sample for 278
2 3 4 5 6 7 8 9	very common.  Q. On pages six and seven, you show RNA extraction data?  A. Yes.  Q. Did you not generate any RNA extraction data for the 500 and the thousand milliliter per microgram tests?  A. Okay. So see the ID number?  Q. Yes.  A. All the ID number, and then the ID number	2 3 4 5 6 7 8 9	BY MR. HEGARTY:  Q. Well, you said  A. Page seven, you have 267, 269, 273, yes?  Q. Yes.  A. And then on the next page, you have it has everything has a code next to it. So they're all labeled. See that?  Q. Yes. But if you look, Doctor, there is for example, 278, on page two, a sample for 278 A. Um-hum.
2 3 4 5 6 7 8 9 10	very common.  Q. On pages six and seven, you show RNA extraction data?  A. Yes.  Q. Did you not generate any RNA extraction data for the 500 and the thousand milliliter per microgram tests?  A. Okay. So see the ID number?  Q. Yes.  A. All the ID number, and then the ID number here? It says exactly which one we isolated RNA from,	2 3 4 5 6 7 8 9 10	BY MR. HEGARTY:  Q. Well, you said  A. Page seven, you have 267, 269, 273, yes?  Q. Yes.  A. And then on the next page, you have it has everything has a code next to it. So they're all labeled. See that?  Q. Yes. But if you look, Doctor, there is for example, 278, on page two, a sample for 278 A. Um-hum.  Q and I don't see RNA extraction data for
2 3 4 5 6 7 8 9 10 11	very common.  Q. On pages six and seven, you show RNA extraction data?  A. Yes.  Q. Did you not generate any RNA extraction data for the 500 and the thousand milliliter per microgram tests?  A. Okay. So see the ID number?  Q. Yes.  A. All the ID number, and then the ID number here? It says exactly which one we isolated RNA from, so they should correspond. If we isolated RNA, it will	2 3 4 5 6 7 8 9 10 11	BY MR. HEGARTY:  Q. Well, you said  A. Page seven, you have 267, 269, 273, yes?  Q. Yes.  A. And then on the next page, you have it has everything has a code next to it. So they're all labeled. See that?  Q. Yes. But if you look, Doctor, there is for example, 278, on page two, a sample for 278 A. Um-hum.  Q and I don't see RNA extraction data for 278 on six or seven.
2 3 4 5 6 7 8 9 10 11 12 13	very common. Q. On pages six and seven, you show RNA extraction data? A. Yes. Q. Did you not generate any RNA extraction data for the 500 and the thousand milliliter per microgram tests? A. Okay. So see the ID number? Q. Yes. A. All the ID number, and then the ID number here? It says exactly which one we isolated RNA from, so they should correspond. If we isolated RNA, it will be from here. But the problem is, the RNA we isolated	2 3 4 5 6 7 8 9 10 11 12 13	BY MR. HEGARTY:  Q. Well, you said  A. Page seven, you have 267, 269, 273, yes?  Q. Yes.  A. And then on the next page, you have it has everything has a code next to it. So they're all labeled. See that?  Q. Yes. But if you look, Doctor, there is for example, 278, on page two, a sample for 278 A. Um-hum.  Q and I don't see RNA extraction data for 278 on six or seven.  A. 278. I just want to make sure before I
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2 3 4 5 6 7 8 9 10 11 12 13 14 15	very common.  Q. On pages six and seven, you show RNA extraction data?  A. Yes.  Q. Did you not generate any RNA extraction data for the 500 and the thousand milliliter per microgram tests?  A. Okay. So see the ID number?  Q. Yes.  A. All the ID number, and then the ID number here? It says exactly which one we isolated RNA from, so they should correspond. If we isolated RNA, it will be from here. But the problem is, the RNA we isolated was not the quality was not good, so we had to redo it.  Q. And none of the numbers that you list for	2 3 4 5 6 7 8 9 10 11 12 13 14 15	BY MR. HEGARTY:  Q. Well, you said  A. Page seven, you have 267, 269, 273, yes?  Q. Yes.  A. And then on the next page, you have it has everything has a code next to it. So they're all labeled. See that?  Q. Yes. But if you look, Doctor, there is for example, 278, on page two, a sample for 278 A. Um-hum.  Q and I don't see RNA extraction data for 278 on six or seven.  A. 278. I just want to make sure before I answer you. Okay.  Q. Why is that?  A. We probably we lost it.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	very common.  Q. On pages six and seven, you show RNA extraction data?  A. Yes.  Q. Did you not generate any RNA extraction data for the 500 and the thousand milliliter per microgram tests?  A. Okay. So see the ID number?  Q. Yes.  A. All the ID number, and then the ID number here? It says exactly which one we isolated RNA from, so they should correspond. If we isolated RNA, it will be from here. But the problem is, the RNA we isolated was not the quality was not good, so we had to redo it.  Q. And none of the numbers that you list for the 500 and the thousand  A. Um-hum.  Q are listed on the RNA data on six and seven?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	BY MR. HEGARTY:  Q. Well, you said A. Page seven, you have 267, 269, 273, yes? Q. Yes. A. And then on the next page, you have it has everything has a code next to it. So they're all labeled. See that? Q. Yes. But if you look, Doctor, there is for example, 278, on page two, a sample for 278 A. Um-hum. Q and I don't see RNA extraction data for 278 on six or seven. A. 278. I just want to make sure before I answer you. Okay. Q. Why is that? A. We probably we lost it. Q. Do you know? A. I don't know. What I know from this experiment, the RNA extraction did not work as well a we would like to. Q. But the data on six and seven do correspond
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	very common.  Q. On pages six and seven, you show RNA extraction data?  A. Yes.  Q. Did you not generate any RNA extraction data for the 500 and the thousand milliliter per microgram tests?  A. Okay. So see the ID number?  Q. Yes.  A. All the ID number, and then the ID number here? It says exactly which one we isolated RNA from, so they should correspond. If we isolated RNA, it will be from here. But the problem is, the RNA we isolated was not the quality was not good, so we had to redo it.  Q. And none of the numbers that you list for the 500 and the thousand  A. Um-hum.  Q are listed on the RNA data on six and seven?  A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	BY MR. HEGARTY:  Q. Well, you said A. Page seven, you have 267, 269, 273, yes? Q. Yes. A. And then on the next page, you have it has everything has a code next to it. So they're all labeled. See that? Q. Yes. But if you look, Doctor, there is for example, 278, on page two, a sample for 278 A. Um-hum. Q and I don't see RNA extraction data for 278 on six or seven. A. 278. I just want to make sure before I answer you. Okay. Q. Why is that? A. We probably we lost it. Q. Do you know? A. I don't know. What I know from this experiment, the RNA extraction did not work as well a we would like to.
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	Page 371		Page 373
1		1	
2	A. From these data? Q. Yes.	2	<ul><li>23. Did you run data for SOD-3, CAT, GST, etcetera?</li><li>A. Okay. Let me answer this, please. So this</li></ul>
3	Q. Tes. A. No.	3	part here, you see how it's scribbled a lot and
4	Q. Do you still have somewhere, though or	4	scratched and all that stuff?
5	strike that. With regard to the sample 278 we talked	5	MR. LAPINSKI: What page are you
6	about, did you even run the RNA extraction data?	6	referring to, Doctor?
7	MS. O'DELL: Objection, form. I'm	7	THE WITNESS: 20. 20 you have the
8	not sure I understood. Do you mind repeating your	8	same page, right?
9	question?	9	BY MR. HEGARTY:
10	BY MR. HEGARTY:	10	Q. 20, yes.
11	Q. Well, you how a sample. We looked at 278,	11	A. Okay. This part here, we just started a
12	correct?	12	fresh one here. It's exactly the same one. We started
13	A. (Nodding).	13	to explain everything in details.
14	Q. And you're nodding your head. And on six	14	Q. You're jumping over to the main tests?
15	and seven there is no RNA extraction data for 278. Did	15	A. Yes, which this is exactly the same. It's
16	you even try to run the 278 sample?	16	just different the way we organized it here better,
17	A. I need to clarify something. There is	17	okay. We didn't cross anything, we didn't do anything,
18	something missing here, okay. So these are the samples	18	I just scrambled this, and then we started the whole
19	the treatment of cells, okay. You treat the cells, and	19	new book from here, explaining everything in details
20	then after the treatment, as indicated here, 24 hours,	20	with the sample ID. Let me tell you
21	48 hours, 72 hours with the different doses, 500,	21	MS. O'DELL: At what page
22	1,000, with the with the powder, then	22	THE WITNESS: Let me answer the
23	you after that, you extract RNA.	23	question.
24	Q. Right.	24	MS. O'DELL: At what page is that?
25	A. What I said is some of the extraction	25	THE WITNESS: Oh. From here on,
			,
	Page 372		Page 374
1	worked, some didn't, and even the one that they worked,	1	from
2	the RNA was degraded.	2	MS. O'DELL: Page?
3	Q. How do you know if an extraction works or it	3	THE WITNESS: From page 30 on.
4	doesn't?	4	MS. O'DELL: Okay.
5	A. Because when you look at the you're	5	THE WITNESS: Let me explain. Let
6	trying to how do I know if it worked or not? If you	6	me answer your question about the enzymes. So now we
7	look at the ratio of 260 to 280, that's very low, and	7	11 4 4 11 37 4 4 14 11
		· '	did these are the cells. We treated the cells,
8	the yield was very low.	8	okay, with the 5, 20 and a hundred, okay. And then we
8 9	the yield was very low.  Q. You're looking at the ratio of 260 to 280?		
		8	okay, with the 5, 20 and a hundred, okay. And then we
9	Q. You're looking at the ratio of 260 to 280?	8 9	okay, with the 5, 20 and a hundred, okay. And then we took some of the media, we took some of the cells for
9 10	<ul><li>Q. You're looking at the ratio of 260 to 280?</li><li>A. Yes. And the the yield, how much we got</li></ul>	8 9 10	okay, with the 5, 20 and a hundred, okay. And then we took some of the media, we took some of the cells for RNA extraction to do PCR, we took some from the cells
9 10 11	<ul> <li>Q. You're looking at the ratio of 260 to 280?</li> <li>A. Yes. And the the yield, how much we got out of the cells was very low to do anything with it.</li> </ul>	8 9 10 11	okay, with the 5, 20 and a hundred, okay. And then we took some of the media, we took some of the cells for RNA extraction to do PCR, we took some from the cells for to isolate protein to do ELISA, and some for DNA
9 10 11 12	<ul> <li>Q. You're looking at the ratio of 260 to 280?</li> <li>A. Yes. And the the yield, how much we got out of the cells was very low to do anything with it.</li> <li>Q. But why didn't you why don't you have a</li> </ul>	8 9 10 11 12	okay, with the 5, 20 and a hundred, okay. And then we took some of the media, we took some of the cells for RNA extraction to do PCR, we took some from the cells for to isolate protein to do ELISA, and some for DNA to do the genetic testing.
9 10 11 12 13	<ul> <li>Q. You're looking at the ratio of 260 to 280?</li> <li>A. Yes. And the the yield, how much we got out of the cells was very low to do anything with it.</li> <li>Q. But why didn't you why don't you have a line for 278?</li> </ul>	8 9 10 11 12 13	okay, with the 5, 20 and a hundred, okay. And then we took some of the media, we took some of the cells for RNA extraction to do PCR, we took some from the cells for to isolate protein to do ELISA, and some for DNA to do the genetic testing.  BY MR. HEGARTY:
9 10 11 12 13 14	Q. You're looking at the ratio of 260 to 280?  A. Yes. And the the yield, how much we got out of the cells was very low to do anything with it.  Q. But why didn't you why don't you have a line for 278?  A. 278? I don't know. Maybe we maybe we	8 9 10 11 12 13 14	okay, with the 5, 20 and a hundred, okay. And then we took some of the media, we took some of the cells for RNA extraction to do PCR, we took some from the cells for to isolate protein to do ELISA, and some for DNA to do the genetic testing.  BY MR. HEGARTY:  Q. Okay.  A. So it's the same exact sample ID, same exact lot, because that's the way the proper way to do
9 10 11 12 13 14 15	Q. You're looking at the ratio of 260 to 280?  A. Yes. And the the yield, how much we got out of the cells was very low to do anything with it.  Q. But why didn't you why don't you have a line for 278?  A. 278? I don't know. Maybe we maybe we we lost it completely. I don't know. I don't	8 9 10 11 12 13 14 15	okay, with the 5, 20 and a hundred, okay. And then we took some of the media, we took some of the cells for RNA extraction to do PCR, we took some from the cells for to isolate protein to do ELISA, and some for DNA to do the genetic testing.  BY MR. HEGARTY:  Q. Okay.  A. So it's the same exact sample ID, same exact
9 10 11 12 13 14 15	Q. You're looking at the ratio of 260 to 280?  A. Yes. And the the yield, how much we got out of the cells was very low to do anything with it.  Q. But why didn't you why don't you have a line for 278?  A. 278? I don't know. Maybe we maybe we we lost it completely. I don't know. I don't remember.	8 9 10 11 12 13 14 15 16	okay, with the 5, 20 and a hundred, okay. And then we took some of the media, we took some of the cells for RNA extraction to do PCR, we took some from the cells for to isolate protein to do ELISA, and some for DNA to do the genetic testing.  BY MR. HEGARTY:  Q. Okay.  A. So it's the same exact sample ID, same exact lot, because that's the way the proper way to do
9 10 11 12 13 14 15 16 17	<ul> <li>Q. You're looking at the ratio of 260 to 280?</li> <li>A. Yes. And the the yield, how much we got out of the cells was very low to do anything with it.</li> <li>Q. But why didn't you why don't you have a line for 278?</li> <li>A. 278? I don't know. Maybe we maybe we we lost it completely. I don't know. I don't remember.</li> <li>Q. If you turn over to page 20 of this same</li> </ul>	8 9 10 11 12 13 14 15 16 17	okay, with the 5, 20 and a hundred, okay. And then we took some of the media, we took some of the cells for RNA extraction to do PCR, we took some from the cells for to isolate protein to do ELISA, and some for DNA to do the genetic testing.  BY MR. HEGARTY:  Q. Okay.  A. So it's the same exact sample ID, same exact lot, because that's the way the proper way to do these kind of experiments. You have to start from one
9 10 11 12 13 14 15 16 17	Q. You're looking at the ratio of 260 to 280?  A. Yes. And the the yield, how much we got out of the cells was very low to do anything with it.  Q. But why didn't you why don't you have a line for 278?  A. 278? I don't know. Maybe we maybe we we lost it completely. I don't know. I don't remember.  Q. If you turn over to page 20 of this same part of the notebook we're looking at, there you report	8 9 10 11 12 13 14 15 16 17 18 19 20	okay, with the 5, 20 and a hundred, okay. And then we took some of the media, we took some of the cells for RNA extraction to do PCR, we took some from the cells for to isolate protein to do ELISA, and some for DNA to do the genetic testing.  BY MR. HEGARTY:  Q. Okay.  A. So it's the same exact sample ID, same exact lot, because that's the way the proper way to do these kind of experiments. You have to start from one cell line from one lot of cells, sorry, and then go
9 10 11 12 13 14 15 16 17 18	Q. You're looking at the ratio of 260 to 280?  A. Yes. And the the yield, how much we got out of the cells was very low to do anything with it.  Q. But why didn't you why don't you have a line for 278?  A. 278? I don't know. Maybe we maybe we we lost it completely. I don't know. I don't remember.  Q. If you turn over to page 20 of this same part of the notebook we're looking at, there you report treatments with 5, 20 and 100 micrograms per	8 9 10 11 12 13 14 15 16 17 18	okay, with the 5, 20 and a hundred, okay. And then we took some of the media, we took some of the cells for RNA extraction to do PCR, we took some from the cells for to isolate protein to do ELISA, and some for DNA to do the genetic testing.  BY MR. HEGARTY:  Q. Okay.  A. So it's the same exact sample ID, same exact lot, because that's the way the proper way to do these kind of experiments. You have to start from one cell line from one lot of cells, sorry, and then go from there. So same cells, we isolate RNA, isolate for
9 10 11 12 13 14 15 16 17 18 19 20	Q. You're looking at the ratio of 260 to 280?  A. Yes. And the the yield, how much we got out of the cells was very low to do anything with it.  Q. But why didn't you why don't you have a line for 278?  A. 278? I don't know. Maybe we maybe we we lost it completely. I don't know. I don't remember.  Q. If you turn over to page 20 of this same part of the notebook we're looking at, there you report treatments with 5, 20 and 100 micrograms per milliliter, correct?  A. Correct.  Q. Where is the enzyme data for these tests?	8 9 10 11 12 13 14 15 16 17 18 19 20	okay, with the 5, 20 and a hundred, okay. And then we took some of the media, we took some of the cells for RNA extraction to do PCR, we took some from the cells for to isolate protein to do ELISA, and some for DNA to do the genetic testing.  BY MR. HEGARTY:  Q. Okay.  A. So it's the same exact sample ID, same exact lot, because that's the way the proper way to do these kind of experiments. You have to start from one cell line from one lot of cells, sorry, and then go from there. So same cells, we isolate RNA, isolate for PCR, protein for enzyme testing we call it, it's ELISA, and DNA for genetic testing.  Q. If you look at page 21 of the same part of
9 10 11 12 13 14 15 16 17 18 19 20 21	Q. You're looking at the ratio of 260 to 280?  A. Yes. And the the yield, how much we got out of the cells was very low to do anything with it.  Q. But why didn't you why don't you have a line for 278?  A. 278? I don't know. Maybe we maybe we we lost it completely. I don't know. I don't remember.  Q. If you turn over to page 20 of this same part of the notebook we're looking at, there you report treatments with 5, 20 and 100 micrograms per milliliter, correct?  A. Correct.	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	okay, with the 5, 20 and a hundred, okay. And then we took some of the media, we took some of the cells for RNA extraction to do PCR, we took some from the cells for to isolate protein to do ELISA, and some for DNA to do the genetic testing.  BY MR. HEGARTY:  Q. Okay.  A. So it's the same exact sample ID, same exact lot, because that's the way the proper way to do these kind of experiments. You have to start from one cell line from one lot of cells, sorry, and then go from there. So same cells, we isolate RNA, isolate for PCR, protein for enzyme testing we call it, it's ELISA, and DNA for genetic testing.  Q. If you look at page 21 of the same part of the notebook we've been talking about
9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. You're looking at the ratio of 260 to 280?  A. Yes. And the the yield, how much we got out of the cells was very low to do anything with it.  Q. But why didn't you why don't you have a line for 278?  A. 278? I don't know. Maybe we maybe we we lost it completely. I don't know. I don't remember.  Q. If you turn over to page 20 of this same part of the notebook we're looking at, there you report treatments with 5, 20 and 100 micrograms per milliliter, correct?  A. Correct.  Q. Where is the enzyme data for these tests? In other words, you show  A. Oh, okay.	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	okay, with the 5, 20 and a hundred, okay. And then we took some of the media, we took some of the cells for RNA extraction to do PCR, we took some from the cells for to isolate protein to do ELISA, and some for DNA to do the genetic testing.  BY MR. HEGARTY:  Q. Okay.  A. So it's the same exact sample ID, same exact lot, because that's the way the proper way to do these kind of experiments. You have to start from one cell line from one lot of cells, sorry, and then go from there. So same cells, we isolate RNA, isolate for PCR, protein for enzyme testing we call it, it's ELISA, and DNA for genetic testing.  Q. If you look at page 21 of the same part of the notebook we've been talking about  A. Yes.
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. You're looking at the ratio of 260 to 280?  A. Yes. And the the yield, how much we got out of the cells was very low to do anything with it.  Q. But why didn't you why don't you have a line for 278?  A. 278? I don't know. Maybe we maybe we we lost it completely. I don't know. I don't remember.  Q. If you turn over to page 20 of this same part of the notebook we're looking at, there you report treatments with 5, 20 and 100 micrograms per milliliter, correct?  A. Correct.  Q. Where is the enzyme data for these tests? In other words, you show	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	okay, with the 5, 20 and a hundred, okay. And then we took some of the media, we took some of the cells for RNA extraction to do PCR, we took some from the cells for to isolate protein to do ELISA, and some for DNA to do the genetic testing.  BY MR. HEGARTY:  Q. Okay.  A. So it's the same exact sample ID, same exact lot, because that's the way the proper way to do these kind of experiments. You have to start from one cell line from one lot of cells, sorry, and then go from there. So same cells, we isolate RNA, isolate for PCR, protein for enzyme testing we call it, it's ELISA, and DNA for genetic testing.  Q. If you look at page 21 of the same part of the notebook we've been talking about

	Page 375		Page 377
1	February 26th, 2018 with 5, 20 and a hundred and zero	1	A. 383, 384, 385, that answers your question,
2	that are numbered 3 383, 384, 385 and 386. Do you	2	right? They are treated with the same. This is just
3	see that?	3	additional, extra
4	A. Um-hum.	4	Q. Okay.
5	Q. If you turn to the next two pages	5	A to get more cells.
6	A. 383.	6	Q. So where where are the tests for the ones
7	Q those pages are dated 2-15 2-5 and	7	that are reported on 2-26?
8	2-16 and list data RNA extraction data for 383,	8	A. We didn't need to do it. We have we have
9	384, 385 and 386, but you're showing the seeding	9	done here. We did it. We're done.
10	of cells on the 26th. How can you have data	10	Q. Well, why did you do it again on 2-26?
11	generated on the 5th and 16th for cells you seeded on	11	A. We need more. We always need more.
12	the 26th?	12	Q. But did you test those?
13	A. This is 2-26. That's 283, 284, 260, yeah.	13	A. The new ones that we did?
14	This could be from a different lot. So because we	14	Q. Correct.
15	we get we always treat cells and get more cells if	15	A. No.
16	we need RNA. So this could be from a different lot.	16	Q. Why not?
17	So this is normal ovarian epithelial cells, but they're	17	A. We didn't need to. We had we had enough
18	very hard to grow. You need to grow more of them to	18	RNA, and we proceeded.
19	get the same amount of RNA.	19	Q. Well, you had enough RNA as reported on 2-5
20	Q. So where are then the treatments of 383,	20	and 2-16. Why then did you decide on 2-26 to do the
21	384, 385 and 386 that are reported on 22 and 23?	21	cells again?
22	A. This one here?	22	A. Hold on one second, please.
23	Q. Yes. You report data on 2-5 and 2-16 on	23	MS. O'DELL: Object to form.
24	pages 22 and 23 for samples 383 through 386, but where	24	THE WITNESS: I'm not understanding
25	are the	25	what you're really asking me now.
	Page 376		Page 378
_			- a.g a.e.
1	A. Yeah.	1	BY MR. HEGARTY:
1 2	<ul><li>A. Yeah.</li><li>Q seeding where is the seeding data and</li></ul>	1 2	
			BY MR. HEGARTY:
2	Q seeding where is the seeding data and	2	BY MR. HEGARTY: Q. Well, you
2	Q seeding where is the seeding data and the data for those four samples?	2 3	BY MR. HEGARTY: Q. Well, you A. Where are you looking?
2 3 4	<ul><li>Q seeding where is the seeding data and the data for those four samples?</li><li>A. There is no seeding data. This is just to</li></ul>	2 3 4	BY MR. HEGARTY: Q. Well, you A. Where are you looking? Q. Let me finish my question. You said you ran
2 3 4 5	<ul><li>Q seeding where is the seeding data and the data for those four samples?</li><li>A. There is no seeding data. This is just to get more of it. We have retreated the same time with</li></ul>	2 3 4 5	BY MR. HEGARTY: Q. Well, you A. Where are you looking? Q. Let me finish my question. You said you ran the tests for normal epithelial cells, as you pointed
2 3 4 5 6	<ul> <li>Q seeding where is the seeding data and the data for those four samples?</li> <li>A. There is no seeding data. This is just to get more of it. We have retreated the same time with the other cells, but this is an additional treatment to</li> </ul>	2 3 4 5 6	BY MR. HEGARTY: Q. Well, you A. Where are you looking? Q. Let me finish my question. You said you ran the tests for normal epithelial cells, as you pointed to on page 20, 383 to 386, that you say correspond to
2 3 4 5 6 7	Q seeding where is the seeding data and the data for those four samples?  A. There is no seeding data. This is just to get more of it. We have retreated the same time with the other cells, but this is an additional treatment to get more cells	2 3 4 5 6 7	BY MR. HEGARTY: Q. Well, you A. Where are you looking? Q. Let me finish my question. You said you ran the tests for normal epithelial cells, as you pointed to on page 20, 383 to 386, that you say correspond to the data on those two pages, on pages 22 and 23,
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2 3 4 5 6 7 8 9 10	Q seeding where is the seeding data and the data for those four samples?  A. There is no seeding data. This is just to get more of it. We have retreated the same time with the other cells, but this is an additional treatment to get more cells Q. Understood. A more RNA. But we didn't use this for isolating the RNA from here. Q. But where did 383 to 386 come from? A. They were treated with the same cells. Q. But you	2 3 4 5 6 7 8 9 10	BY MR. HEGARTY:  Q. Well, you A. Where are you looking? Q. Let me finish my question. You said you ran the tests for normal epithelial cells, as you pointed to on page 20, 383 to 386, that you say correspond to the data on those two pages, on pages 22 and 23, correct?  A. Yes. Q. Those pages are have dates on them of the data runs of 2-5 and 2-16, correct?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q seeding where is the seeding data and the data for those four samples?  A. There is no seeding data. This is just to get more of it. We have retreated the same time with the other cells, but this is an additional treatment to get more cells Q. Understood. A more RNA. But we didn't use this for isolating the RNA from here. Q. But where did 383 to 386 come from? A. They were treated with the same cells. Q. But you MS. O'DELL: On what page?  BY MR. HEGARTY: Q. The page you're pointing to, page 20, has crossed out 383 to 386, and it covers different cells on that page A. No Q. Let me finish SKOV A2780. A. Can I answer? Q. Sure. A. Okay. If you look at page 20, see normal	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	BY MR. HEGARTY:  Q. Well, you A. Where are you looking? Q. Let me finish my question. You said you ran the tests for normal epithelial cells, as you pointed to on page 20, 383 to 386, that you say correspond to the data on those two pages, on pages 22 and 23, correct?  A. Yes. Q. Those pages are have dates on them of the data runs of 2-5 and 2-16, correct? A. Correct. Q. So you've got data that you can use? A. Um-hum. Q. Then why did you need to run additional cells on 2-26, if you already had data that you could use? A. I answered.  MS. O'DELL: Object to the form. BY MR. HEGARTY: Q. Tell me again. A. Okay. Normal ovarian epithelial cells, they are very slow-growing cells, and every time we work
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q seeding where is the seeding data and the data for those four samples?  A. There is no seeding data. This is just to get more of it. We have retreated the same time with the other cells, but this is an additional treatment to get more cells Q. Understood. A more RNA. But we didn't use this for isolating the RNA from here. Q. But where did 383 to 386 come from? A. They were treated with the same cells. Q. But you MS. O'DELL: On what page?  BY MR. HEGARTY: Q. The page you're pointing to, page 20, has crossed out 383 to 386, and it covers different cells on that page A. No Q. Let me finish SKOV A2780. A. Can I answer? Q. Sure.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	BY MR. HEGARTY:  Q. Well, you A. Where are you looking? Q. Let me finish my question. You said you ran the tests for normal epithelial cells, as you pointed to on page 20, 383 to 386, that you say correspond to the data on those two pages, on pages 22 and 23, correct?  A. Yes. Q. Those pages are have dates on them of the data runs of 2-5 and 2-16, correct? A. Correct. Q. So you've got data that you can use? A. Um-hum. Q. Then why did you need to run additional cells on 2-26, if you already had data that you could use? A. I answered.  MS. O'DELL: Object to the form. BY MR. HEGARTY: Q. Tell me again. A. Okay. Normal ovarian epithelial cells, they

	5 200		7 201
	Page 379		Page 381
1	with normal epithelial cells, we back up. We have	1	that other proteins and media may be interfering
2	we wake up some more cells just in case something	2	tri-lysate. What does that mean?
3	happens, so we can use them. Does that make sense?	3	A. This is an ELISA assay to determine CA-125
4	Q. Yes. And going back to page 20, why,	4	levels. So when you determine CA-125 is a protein
5	though, do you have numbers 383 through 386, but then	5	that is made by the cell inside the cells, and also
6	you also have crossed through data with regard to the	6	secreted outside the cells.
7	5, 20 and a hundred? Doesn't that appear that these	7	So when we try to do to determine
8	test results weren't done	8	in the media first how much we have there in the media,
9	MS. O'DELL: Object to the form.	9	and if also we wanted to determine how much they are
10	BY MR. HEGARTY:	10	in the lysate inside the cell. That's what I meant by
11	Q or these tests weren't done?	11	this. Lysate means inside the cell. Media means
12	A. I answered you.	12	outside the cell.
13	Q. Why do you have lines through the 5, 20 and	13	Q. When it says other the proteins and media
14	100?	14	may be interfering, what is that referring to?
15	A. Here?	15	A. May be interfering, maybe. We don't know.
16	Q. Here.	16	So we're just assuming that, so that's why we run both.
17	A. Okay.	17	Q. You report on this same page using a
18	MR. LAPINSKI: When you say here,	18	thousand micrograms per milliliter of talc in this
19	you're referring to page 20?	19	experiment
20	THE WITNESS: On page 20. So they	20	A. Correct.
21	were missed, they were see the numbers are	21	Q is that correct?
22	different? We crossed them. We give them the right	22 23	A. Correct.
23	the corresponding correct numbers. BY MR. HEGARTY:	24	Q. But again, you reported, again, we noted a
24 25		25	moment ago that a thousand was killing the cells, correct?
25	Q. Okay.	25	correct:
	Page 380		Page 382
1	A. And this is my handwriting. I crossed that.	1	A. No.
2	Q. So you do have do you have other		A. NO.
_	Q. So you do have do you have other	2	
3		2	MS. O'DELL: Object to the form. THE WITNESS: No.
	handwriting in this part of the notebook of yours?  A. This is Nicole, and this is me.		MS. O'DELL: Object to the form.
3	handwriting in this part of the notebook of yours?  A. This is Nicole, and this is me.	3	MS. O'DELL: Object to the form. THE WITNESS: No.
3 4	handwriting in this part of the notebook of yours?	3 4	MS. O'DELL: Object to the form. THE WITNESS: No. MS. O'DELL: That's not what he
3 4 5	handwriting in this part of the notebook of yours?  A. This is Nicole, and this is me.  Q. You're on the right side of page 20?	3 4 5	MS. O'DELL: Object to the form. THE WITNESS: No. MS. O'DELL: That's not what he said.
3 4 5 6	handwriting in this part of the notebook of yours?  A. This is Nicole, and this is me.  Q. You're on the right side of page 20?  A. Right side, this is me. I crossed this, and	3 4 5 6	MS. O'DELL: Object to the form. THE WITNESS: No. MS. O'DELL: That's not what he said. THE WITNESS: That's not what I
3 4 5 6 7	handwriting in this part of the notebook of yours?  A. This is Nicole, and this is me.  Q. You're on the right side of page 20?  A. Right side, this is me. I crossed this, and I put the numbers.	3 4 5 6 7	MS. O'DELL: Object to the form. THE WITNESS: No. MS. O'DELL: That's not what he said. THE WITNESS: That's not what I said. Thank you.
3 4 5 6 7 8	handwriting in this part of the notebook of yours?  A. This is Nicole, and this is me.  Q. You're on the right side of page 20?  A. Right side, this is me. I crossed this, and I put the numbers.  Q. And you're pointing on the to the ride	3 4 5 6 7 8	MS. O'DELL: Object to the form. THE WITNESS: No. MS. O'DELL: That's not what he said. THE WITNESS: That's not what I said. Thank you. BY MR. HEGARTY:
3 4 5 6 7 8 9	handwriting in this part of the notebook of yours?  A. This is Nicole, and this is me.  Q. You're on the right side of page 20?  A. Right side, this is me. I crossed this, and I put the numbers.  Q. And you're pointing on the to the ride side of page 20?	3 4 5 6 7 8 9	MS. O'DELL: Object to the form. THE WITNESS: No. MS. O'DELL: That's not what he said. THE WITNESS: That's not what I said. Thank you. BY MR. HEGARTY: Q. What did you say?
3 4 5 6 7 8 9	handwriting in this part of the notebook of yours?  A. This is Nicole, and this is me.  Q. You're on the right side of page 20?  A. Right side, this is me. I crossed this, and I put the numbers.  Q. And you're pointing on the to the ride side of page 20?  A. Correct. The 383, 384, 385, 386 where it	3 4 5 6 7 8 9	MS. O'DELL: Object to the form. THE WITNESS: No. MS. O'DELL: That's not what he said. THE WITNESS: That's not what I said. Thank you. BY MR. HEGARTY: Q. What did you say? A. I said we could not get RNA from the
3 4 5 6 7 8 9 10	handwriting in this part of the notebook of yours?  A. This is Nicole, and this is me.  Q. You're on the right side of page 20?  A. Right side, this is me. I crossed this, and I put the numbers.  Q. And you're pointing on the to the ride side of page 20?  A. Correct. The 383, 384, 385, 386 where it says okay, that's me. Yeah. So my answer about these	3 4 5 6 7 8 9 10	MS. O'DELL: Object to the form. THE WITNESS: No. MS. O'DELL: That's not what he said. THE WITNESS: That's not what I said. Thank you. BY MR. HEGARTY: Q. What did you say? A. I said we could not get RNA from the treatment of the thousand. We got media in cells, the lysate. There's something I need to explain this. Do you want me to?
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3 4 5 6 7 8 9 10 11 12 13	handwriting in this part of the notebook of yours?  A. This is Nicole, and this is me.  Q. You're on the right side of page 20?  A. Right side, this is me. I crossed this, and I put the numbers.  Q. And you're pointing on the to the ride side of page 20?  A. Correct. The 383, 384, 385, 386 where it says okay, that's me. Yeah. So my answer about these cells, that the because they're slow growing, they're very, very slow growing, everybody knows this, we we always when we do experiments with them, we back up. So we add we seed more just in case, so we	3 4 5 6 7 8 9 10 11 12 13 14 15	MS. O'DELL: Object to the form. THE WITNESS: No. MS. O'DELL: That's not what he said. THE WITNESS: That's not what I said. Thank you. BY MR. HEGARTY: Q. What did you say? A. I said we could not get RNA from the treatment of the thousand. We got media in cells, the lysate. There's something I need to explain this. Do you want me to? Q. Which part do you want to explain? A. The mixup between the lysate, the media, RNA
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	handwriting in this part of the notebook of yours?  A. This is Nicole, and this is me.  Q. You're on the right side of page 20?  A. Right side, this is me. I crossed this, and I put the numbers.  Q. And you're pointing on the to the ride side of page 20?  A. Correct. The 383, 384, 385, 386 where it says okay, that's me. Yeah. So my answer about these cells, that the because they're slow growing, they're very, very slow growing, everybody knows this, we we always when we do experiments with them, we back up. So we add we seed more just in case, so we don't have to wait another three, four weeks.  Q. Would you look at page 13 of that same part of the notebook, please?  A. Show me, please.  Q. Dated 1-12-18 at the top.  A. Yeah.  Q. It says at the top, protein levels for CA-125 assay, correct?  A. Yes.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	MS. O'DELL: Object to the form. THE WITNESS: No. MS. O'DELL: That's not what he said. THE WITNESS: That's not what I said. Thank you. BY MR. HEGARTY: Q. What did you say? A. I said we could not get RNA from the treatment of the thousand. We got media in cells, the lysate. There's something I need to explain this. Do you want me to? Q. Which part do you want to explain? A. The mixup between the lysate, the media, RNA versus protein versus enzymes. There's like really a mixup here. Q. Really a what? A. Mixup. Mixup. We're mixing it. Q. When you say mixup, what do you mean? A. It means you refer to treatment with a thousand, with for RNA to the same treatment with a thousand for the media collected from cells. Q. Okay. We'll we'll come back
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	handwriting in this part of the notebook of yours?  A. This is Nicole, and this is me.  Q. You're on the right side of page 20?  A. Right side, this is me. I crossed this, and I put the numbers.  Q. And you're pointing on the to the ride side of page 20?  A. Correct. The 383, 384, 385, 386 where it says okay, that's me. Yeah. So my answer about these cells, that the because they're slow growing, they're very, very slow growing, everybody knows this, we we always when we do experiments with them, we back up. So we add we seed more just in case, so we don't have to wait another three, four weeks.  Q. Would you look at page 13 of that same part of the notebook, please?  A. Show me, please.  Q. Dated 1-12-18 at the top.  A. Yeah.  Q. It says at the top, protein levels for CA-125 assay, correct?	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MS. O'DELL: Object to the form. THE WITNESS: No. MS. O'DELL: That's not what he said. THE WITNESS: That's not what I said. Thank you. BY MR. HEGARTY: Q. What did you say? A. I said we could not get RNA from the treatment of the thousand. We got media in cells, the lysate. There's something I need to explain this. Do you want me to? Q. Which part do you want to explain? A. The mixup between the lysate, the media, RNA versus protein versus enzymes. There's like really a mixup here. Q. Really a what? A. Mixup. Mixup. We're mixing it. Q. When you say mixup, what do you mean? A. It means you refer to treatment with a thousand, with for RNA to the same treatment with a thousand for the media collected from cells.

	Page 383		Page 385
1	Q to your explanation if we need to.	1	cells, so that's we went and titrated down to the
2	A. If you need to.	2	lowest dose, which is 5, 20 and a hundred. And for
3	Q. If you look over on page 19 of this same	3	CA-125, I believe we did that.
4	part of the notebook. Tell me when you're there,	4	Q. Nicole wrote on 1-31-18 on that page 19 that
5	page 19.	5	we need to decrease dose. Why did she say we need to
6	A. Oh.	6	decrease dose, if you know?
7	Q. I think you're on page 20.	7	A. Because it is physically killing some of the
8	A. Sorry. Dated January 29?	8	cells or most of the cells.
9	Q. At the top.	9	Q. Is it your testimony that the data for
10	A. Yes, thank you.	10	CA-125 run with a thousand micrograms per milliliter is
11	Q. At the bottom, there's a date of January 31,	11	still valid data?
12	2018. It says, the presence of 1,000 micrograms per	12	A. Yes.
13	milliliter is physically killing the cells. We need to	13	MS. O'DELL: Object to form.
14	decrease dose. First of all, whose handwriting is	14	THE WITNESS: Yes.
15	that?	15	BY MR. HEGARTY:
16	A. That's Nicole.	16	Q. Even though the data came from tests where
17	Q. So I just asked you a moment ago about your	17	the dose was physically killing the cells?
18	use of a thousand micrograms per milliliter for the	18	A. Yes, part of the cells.
19	CA-125 test results. So how can you get valid test	19	Q. How are you able to know that it was only
20	results for CA-125 when for a thousand micrograms	20	part of the cells and not all of the cells?
21	per milliliters of of dose, when the dose is	21	A. We can see it under the microscope. This is
22	physically killing the cells?	22	the exact same reason how she determined physically
23	A. Yes. So it's physically killing the	23	killing the cells. So you look at them.
24	cells. It doesn't mean it's killing all cells in the	24	Q. If you look at the
25	media. It's killing part of the cells, not the whole	25	A. And also, if I may add, we confirmed it with
	Page 384		Page 386
1	cells. So we still got media, we still got protein out	1	the lower dose, and we got similar effects. So that's
2	of it.	2	why we believe it is a valid data.
3	Q. But how do you know that the the results	3	Q. If you turn over to page 15 of that same
4	of the tests are not affected by the toxicity of the	4	part of the notebook, at the very bottom there's a
5	dose to the cells?	5	statement that says, lysate protein measurements may be
6	A. Good question.	6	affected by talc. Whose handwriting is that?
7	MS. O'DELL: Object to the form.	7	A. Nicole.
8	THE WITNESS: Good question. That's	8	Q. What does that mean?
9	why we repeated this in here.	9	A. It means the yield of the protein, how much
		1 10	
10	MS. O'DELL: Refer to the page.	10	protein you get from cells isolated from talc. So when
10 11	THE WITNESS: So we we this	11	you treat cells with talc, the protein yield that you
10 11 12	THE WITNESS: So we we this was just a pilot experiment, as I indicated, and that's	11 12	you treat cells with talc, the protein yield that you get, that's why we do a normalization, is affected
10 11 12 13	THE WITNESS: So we we this was just a pilot experiment, as I indicated, and that's why we repeated it in detail here. If you go to ELISA	11 12 13	you treat cells with talc, the protein yield that you get, that's why we do a normalization, is affected because there is a differential expression of genes.
10 11 12 13 14	THE WITNESS: So we we this was just a pilot experiment, as I indicated, and that's why we repeated it in detail here. If you go to ELISA section here, and you can here under the ELISA section	11 12 13 14	you treat cells with talc, the protein yield that you get, that's why we do a normalization, is affected because there is a differential expression of genes. Something is going on.
10 11 12 13 14 15	THE WITNESS: So we we this was just a pilot experiment, as I indicated, and that's why we repeated it in detail here. If you go to ELISA section here, and you can here under the ELISA section there's a CA-125 with the new doses, 5, 20 and a	11 12 13 14 15	you treat cells with talc, the protein yield that you get, that's why we do a normalization, is affected because there is a differential expression of genes.  Something is going on.  Q. If you look at the very end of that first
10 11 12 13 14 15	THE WITNESS: So we we this was just a pilot experiment, as I indicated, and that's why we repeated it in detail here. If you go to ELISA section here, and you can here under the ELISA section there's a CA-125 with the new doses, 5, 20 and a hundred. It's right here.	11 12 13 14 15 16	you treat cells with talc, the protein yield that you get, that's why we do a normalization, is affected because there is a differential expression of genes.  Something is going on.  Q. If you look at the very end of that first exhibit. It's page 24 of that of the part of the
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10 11 12 13 14 15 16 17 18	THE WITNESS: So we we this was just a pilot experiment, as I indicated, and that's why we repeated it in detail here. If you go to ELISA section here, and you can here under the ELISA section there's a CA-125 with the new doses, 5, 20 and a hundred. It's right here.  MS. O'DELL: What pages are you referring to?  THE WITNESS: I will tell you in one	11 12 13 14 15 16 17 18	you treat cells with talc, the protein yield that you get, that's why we do a normalization, is affected because there is a differential expression of genes. Something is going on.  Q. If you look at the very end of that first exhibit. It's page 24 of that of the part of the notebook we've been looking at, page 24.  A. This is here. This belongs this is not right. This is here.
10 11 12 13 14 15 16 17 18 19	THE WITNESS: So we we this was just a pilot experiment, as I indicated, and that's why we repeated it in detail here. If you go to ELISA section here, and you can here under the ELISA section there's a CA-125 with the new doses, 5, 20 and a hundred. It's right here.  MS. O'DELL: What pages are you referring to?  THE WITNESS: I will tell you in one second. It is page 63. It's called CA-125 ELISA.	11 12 13 14 15 16 17 18 19 20	you treat cells with talc, the protein yield that you get, that's why we do a normalization, is affected because there is a differential expression of genes. Something is going on.  Q. If you look at the very end of that first exhibit. It's page 24 of that of the part of the notebook we've been looking at, page 24.  A. This is here. This belongs this is not right. This is here.  Q. No, this is a we're look at something
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10 11 12 13 14 15 16 17 18 19 20 21 22	THE WITNESS: So we we this was just a pilot experiment, as I indicated, and that's why we repeated it in detail here. If you go to ELISA section here, and you can here under the ELISA section there's a CA-125 with the new doses, 5, 20 and a hundred. It's right here.  MS. O'DELL: What pages are you referring to?  THE WITNESS: I will tell you in one second. It is page 63. It's called CA-125 ELISA. BY MR. HEGARTY:  Q. I understand that you why did you go	11 12 13 14 15 16 17 18 19 20 21 22	you treat cells with talc, the protein yield that you get, that's why we do a normalization, is affected because there is a differential expression of genes. Something is going on.  Q. If you look at the very end of that first exhibit. It's page 24 of that of the part of the notebook we've been looking at, page 24.  A. This is here. This belongs this is not right. This is here.  Q. No, this is a we're look at something different.  A. Oh, sorry.
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	Dawa 207		Dawa 200
	Page 387		Page 389
1	Q. Correct.	1	Q. Well, it says CDNA at the top of page 23.
2	A. Yeah, this is here.	2	A. That's that's yeah, that's not CDNA
3	Q. Okay. You're saying the data that you're	3	was not done for this one.
4	pointing to on 24 is in the	4	Q. That was going to be my next question. What
5	A. This	5	data was what other tests were done with the samples
6	Q poster?	6	that we talked through on page 20 of the 5, 20 and a
7	A this mistakenly put here. It should be	7	hundred?
8	here. This is in the poster. It's exact identical	8	A. Okay. PCR data, no PCR data. We haven't
10	data.	10	done anything PCR here from these data.  Q. Did you do anything with those data?
11	MS. O'DELL: Just what you're saying that the data	11	A. Those data, let's see. Those data are the
12	THE WITNESS: 24 page here is 62, 63	12	same. I'm sorry. Sorry. I take that back. I
13	here.	13	misunderstood the question. Okay.
14	MS. O'DELL: Of Exhibit 3?	14	MS. O'DELL: Why don't you repeat
15	THE WITNESS: Of Exhibit 3.	15	the question?
16	MS. O'DELL: Okay.	16	THE WITNESS: Yeah, please, please,
17	THE WITNESS: It's mistakenly put	17	because I'm confused going back and forth, so sorry.
18	here.	18	BY MR. HEGARTY:
19	BY MR. HEGARTY:	19	Q. Well, I'm looking for
20	Q. Where is the data for the 20, 100 and a	20	A. Sorry.
21	thousand for all of the charts that you have on the	21	Q any other tests that you ran with these
22	back?	22	samples.
23	A. It's here. It's all here.	23	A. What samples?
24	Q. In which notebook?	24	Q. Samples
25	A. It's this is 3, and it starts from page	25	A. 356?
	200		
	Page 388		Page 390
1		1	
1 2	38 all the way down.	1 2	
			Q. 5 through 20 5, 20 and a hundred on page
2	38 all the way down.  Q. Why is the 5 microgram per milliliter data	2	Q. 5 through 20 5, 20 and a hundred on page 20.
2	38 all the way down.  Q. Why is the 5 microgram per milliliter data not reported?	2	Q. 5 through 20 5, 20 and a hundred on page 20. A. 356, 357, all that?
2 3 4	38 all the way down.  Q. Why is the 5 microgram per milliliter data not reported?  A. Oh. Okay, sorry. This is the first	2 3 4	<ul> <li>Q. 5 through 20 5, 20 and a hundred on page</li> <li>20.</li> <li>A. 356, 357, all that?</li> <li>Q. Correct.</li> </ul>
2 3 4 5	38 all the way down.  Q. Why is the 5 microgram per milliliter data not reported?  A. Oh. Okay, sorry. This is the first experiment we did long time ago. We did it with a hundred with 20, and a hundred, and a thousand. This is for the first experiment that we did, and we	2 3 4 5	<ul> <li>Q. 5 through 20 5, 20 and a hundred on page</li> <li>20.</li> <li>A. 356, 357, all that?</li> <li>Q. Correct.</li> <li>A. The whole manuscript is all about that. I was thinking of the other one, I'm sorry.</li> <li>Q. So the samples that you list in the first</li> </ul>
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Y MR. HEGARTY: Q. Okay. A. Okay. And this is data dated from September	20 21 22	correct. So we wanted to see if there is if there
<ul><li>Q. Okay.</li><li>A. Okay. And this is data dated from September</li></ul>	21 22	
A. Okay. And this is data dated from September	22	is an effect from the supernatant without the
October okov?		particles. That's all.
October, okay:	23	BY MR. HEGARTY:
MS. O'DELL: 2017.	24	Q. Did you see any effect?
THE WITNESS: 2017, okay. At that	25	A. There is some effect.
		_
me, we did 20, a hundred, and a thousand, at that	1	Q. What was the what was the reason for the
me. And so now we repeated this in February of '18.  MS. O'DELL: 2018?	2 3	effect?
THE WITNESS: This is when 2018.	4	A. Because we could not fully isolate the particles from the supernatant. So that's why we
		believe the effect comes from the particles.
		Q. When you say the effect comes from the
		particles, what do you mean?
		A. The the talcum particles.
		Q. And what effect are you talking about?
		A. The effect we see here, the changing the
		changing oxidative stress markers, the effect that we
		observe in the that we report in the poster?
		MS. O'DELL: Just for the record,
=		the poster as contained in Exhibit 3 at pages 60
		what are the pages in the notebook that are at issue?
		THE WITNESS: 38 to 68.
		MS. O'DELL: Okay. Thank you.
		BY MR. HEGARTY:
		Q. If you look at the very first page, the
		index of the part of the notebook we've been looking
milion more to do the dobuy. That account == It o Het		at?
		A. This?
ne optimal condition, but you still can do the		Q. Exhibit 2.
ne optimal condition, but you still can do the experiment, okay. And to confirm that, when we did it		·
ne optimal condition, but you still can do the	24	A. Yep.
na na na na na na na na na na na na na n	periment, okay. And to confirm that, when we did it	Y MR. HEGARTY:  Q. You list in this poster results for a ousand micrograms per milliliter?  A. Correct.  Q. Again, how are you able to verify that at's valid data, when you reported in your study b book that a thousand micrograms per milliliter was lling the cells?  MS. O'DELL: Object to form.  THE WITNESS: Okay. I just answered is.  MS. O'DELL: Repeat your answer  THE WITNESS: Physically killing ome cells, that doesn't mean you cannot get RNA, you nnot get to do the assay. That doesn't it's not e optimal condition, but you still can do the operiment, okay. And to confirm that, when we did it ith the lower dose, we got the results.

i	Page 395		Page 397
1	of January 7, 2018 for protein extraction samples?	1	BY MR. HEGARTY:
2	A. Um-hum.	2	Q. This was the notebook that you brought to
3	Q. Do you see that?	3	the deposition the last time, correct?
4	A. Yes.	4	A. Correct.
5	Q. Then if you turn over to page 20 of that	5	Q. You said this was your first study involving
6	same part of the notebook	6	Fisher talc where you exposed three ovarian cell lines
7	A. Um-hum.	7	and macrophages of epithelial cells and presented the
8	Q this shows that you're seeding the cells	8	work for the poster to the SRI, correct?
9	and treating the cells on February 1st, 2018. How can	9	A. Yes. Just to clarify, macrophages and
10	you do protein extraction on January 1st when you're	10	ovarian epithelial.
11	not doing the tests until February 1st?	11	Q. Do you see pages the first few pages of
12	MS. O'DELL: Exhibit 1.	12	this part this part of the notebook, there are
13	THE WITNESS: Let's see. 53. Where	13	several dates that are whited out and written over. Do
14	is 53. Okay. Yeah. Good question. So if you go to	14	you see those dates?
15	page it says here go to page 53, okay.	15	A. Where?
16	BY MR. HEGARTY:	16	Q. For example, on 9-26, the very first date,
17	Q. Right.	17	9-26-2017, there's whiteout there in the left-hand
18	A. And again, we're mixing up between two	18	corner?
19	things, okay. I'm sorry, can I say it again?	19	A. Yeah.
20	MS. O'DELL: Explain it in detail	20	Q. Look over on the next the page before.
21	THE WITNESS: Yeah, yeah.	21	A. (Gesturing).
22	MS. O'DELL: so the record is	22	Q. Correct. You're pointing to what what
23	clear, please.	23	page number is that at the bottom?
24	THE WITNESS: This this go to	24	A. 38.
25	page 53, please.	25	Q. There is a whiting out, and written over the
	Page 396		Page 398
1	BY MR. HEGARTY:	1	whiteout is 26-2017. Do you see that?
2	Q. Okay, I'm there.		
		2	A. Yes.
3	A. Okay. This is for ELISA for protein	2	A. Yes. Q. Why is that?
3 4	· · · · · · · · · · · · · · · · · · ·		
	A. Okay. This is for ELISA for protein	3	Q. Why is that?
4	A. Okay. This is for ELISA for protein extraction. That for MRNA. That's why we have the	3 4	<ul><li>Q. Why is that?</li><li>A. No idea.</li></ul>
4 5	A. Okay. This is for ELISA for protein extraction. That for MRNA. That's why we have the book is not in chronological order, and we label each	3 4 5	<ul><li>Q. Why is that?</li><li>A. No idea.</li><li>Q. Then if you look down, there's also a</li></ul>
4 5 6	A. Okay. This is for ELISA for protein extraction. That for MRNA. That's why we have the book is not in chronological order, and we label each section, and we left pages so we can write it, fill it	3 4 5 6	<ul><li>Q. Why is that?</li><li>A. No idea.</li><li>Q. Then if you look down, there's also a whiteout over 9 whiteout in 9-29-2017 is written</li></ul>
4 5 6 7	A. Okay. This is for ELISA for protein extraction. That for MRNA. That's why we have the book is not in chronological order, and we label each section, and we left pages so we can write it, fill it in. That's why. You see different two assays. This	3 4 5 6 7	<ul> <li>Q. Why is that?</li> <li>A. No idea.</li> <li>Q. Then if you look down, there's also a whiteout over 9 whiteout in 9-29-2017 is written over. Do you see that?</li> </ul>
4 5 6 7 8	A. Okay. This is for ELISA for protein extraction. That for MRNA. That's why we have the book is not in chronological order, and we label each section, and we left pages so we can write it, fill it in. That's why. You see different two assays. This is protein, ELISA enzymes, and this is RNA.	3 4 5 6 7 8	<ul> <li>Q. Why is that?</li> <li>A. No idea.</li> <li>Q. Then if you look down, there's also a whiteout over 9 whiteout in 9-29-2017 is written over. Do you see that?</li> <li>MS. O'DELL: What page are you on</li> </ul>
4 5 6 7 8 9 10	A. Okay. This is for ELISA for protein extraction. That for MRNA. That's why we have the book is not in chronological order, and we label each section, and we left pages so we can write it, fill it in. That's why. You see different two assays. This is protein, ELISA enzymes, and this is RNA.  Q. Okay.	3 4 5 6 7 8 9 10	<ul> <li>Q. Why is that?</li> <li>A. No idea.</li> <li>Q. Then if you look down, there's also a whiteout over 9 whiteout in 9-29-2017 is written over. Do you see that? MS. O'DELL: What page are you on there?</li> </ul>
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4 5 6 7 8 9 10	A. Okay. This is for ELISA for protein extraction. That for MRNA. That's why we have the book is not in chronological order, and we label each section, and we left pages so we can write it, fill it in. That's why. You see different two assays. This is protein, ELISA enzymes, and this is RNA.  Q. Okay.  DEPOSITION EXHIBIT 24  Lab Notebook	3 4 5 6 7 8 9 10	Q. Why is that? A. No idea. Q. Then if you look down, there's also a whiteout over 9 whiteout in 9-29-2017 is written over. Do you see that?  MS. O'DELL: What page are you on there?  THE WITNESS: Yes.  MR. HEGARTY: We're on page 38. BY MR. HEGARTY: Q. Do you know, why is that whited out?
4 5 6 7 8 9 10 11	A. Okay. This is for ELISA for protein extraction. That for MRNA. That's why we have the book is not in chronological order, and we label each section, and we left pages so we can write it, fill it in. That's why. You see different two assays. This is protein, ELISA enzymes, and this is RNA.  Q. Okay.  DEPOSITION EXHIBIT 24  Lab Notebook  WAS MARKED BY THE REPORTER  FOR IDENTIFICATION  BY MR. HEGARTY:	3 4 5 6 7 8 9 10 11	Q. Why is that? A. No idea. Q. Then if you look down, there's also a whiteout over 9 whiteout in 9-29-2017 is written over. Do you see that?  MS. O'DELL: What page are you on there?  THE WITNESS: Yes.  MR. HEGARTY: We're on page 38. BY MR. HEGARTY: Q. Do you know, why is that whited out? A. No idea. A mistake.
4 5 6 7 8 9 10 11 12 13 14 15	A. Okay. This is for ELISA for protein extraction. That for MRNA. That's why we have the book is not in chronological order, and we label each section, and we left pages so we can write it, fill it in. That's why. You see different two assays. This is protein, ELISA enzymes, and this is RNA.  Q. Okay.  DEPOSITION EXHIBIT 24  Lab Notebook  WAS MARKED BY THE REPORTER  FOR IDENTIFICATION  BY MR. HEGARTY:  Q. We're going to look at the second next	3 4 5 6 7 8 9 10 11 12 13 14 15	Q. Why is that? A. No idea. Q. Then if you look down, there's also a whiteout over 9 whiteout in 9-29-2017 is written over. Do you see that?  MS. O'DELL: What page are you on there?  THE WITNESS: Yes.  MR. HEGARTY: We're on page 38. BY MR. HEGARTY: Q. Do you know, why is that whited out? A. No idea. A mistake.  MS. O'DELL: And Doctor, if you can
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	Page 399		Page 401
1	you tell from the original notebook what what the	1	A. For iNOS?
2	date was that or the dates were that were whited out?	2	Q. Yes.
3	A. I can't tell.	3	A. Yes, whatever is written here. It is
4	MS. O'DELL: Object to the form.	4	reported 20 control and a hundred control for this, and
5	THE WITNESS: I cannot tell.	5	you want to see if it's done for another molecule, like
6	BY MR. HEGARTY:	6	GPX1, for example?
7	Q. Okay. Turn over to page 51, please.	7	Q. No, not right now.
8	A. iNOS.	8	A. Okay.
9	Q. Are you there, Doctor?	9	Q. Not right now. You did not do the a
10	A. iNOS, yes.	10	5 microgram per milliliter sample here?
11	MS. O'DELL: When you say iNOS	11	A. Oh, my God. Okay. No, I did not.
12	THE WITNESS: iNOS, the molecule.	12	Q. Okay. You're still doing a thousand
13	MS. O'DELL: How do you spell that?	13	micrograms per milliliter test with this part this
14	THE WITNESS: I, and then NOS,	14	test, correct?
15	N-O-S.	15	A. I did 20, a hundred, and a thousand.
16	MS. O'DELL: Okay.	16	Q. Please go to page 53.
17	BY MR. HEGARTY:	17	A. GPX?
18	Q. If you look under the in the table where	18	Q. I'm sorry, go to page 52 first.
19	it says SKOV dash 3 cells?	19	A. Still GPX.
20	A. Yes, SKOV.	20	Q. Are you at page 52?
21	Q. You're on the wrong page.	21	A. Um-hum.
22	A. Oh, sorry. Yes. SKOV control.	22	Q. It says, in the chart that has data at the
23	Q. Yeah, there's a control for 20 micrograms	23	top, normal ovarian OV epithelial control for 20, then
24	per milliliter talc, and then also a listed control for	24	it says 100. What does that mean?
25	100 microgram per milliliter talc. Do you see that?	25	A. So this is normal ovarian for a thousand,
	Page 400		Page 402
1	Page 400 A. Yes.	1	Page 402 normal oh. Yes, I think she did the control for 20
1 2		1 2	normal oh. Yes, I think she did the control for 20 and a hundred at one time.
	A. Yes. Q. Wasn't there only one control for each cell line?		normal oh. Yes, I think she did the control for 20
2	<ul><li>A. Yes.</li><li>Q. Wasn't there only one control for each cell line?</li><li>A. For this experiment?</li></ul>	2 3 4	normal oh. Yes, I think she did the control for 20 and a hundred at one time.  Q. How can you do a control for 20 and a hundred at the same time?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	<ul> <li>A. Yes.</li> <li>Q. Wasn't there only one control for each cell line?</li> <li>A. For this experiment?</li> <li>Q. Yes.</li> <li>A. No, there wasn't.</li> <li>Q. You had one set of control cells for each dose?</li> <li>A. Correct.</li> <li>Q. Does the notebook report the treating of the controls for each of the cell lines?</li> <li>A. What notebook?</li> <li>Q. The notebook we're looking at.</li> <li>A. Yeah. It says right there, 20 microgram control, hundred microgram control, 20 microgram treatment, hundred microgram treatment.</li> <li>Q. Does it report the treatment of controls</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	normal oh. Yes, I think she did the control for 20 and a hundred at one time.  Q. How can you do a control for 20 and a hundred at the same time?  A. Because they're very close doses, so we don't as you just said to me, you really didn't need to do more than one control, but because the doses are big, there's a huge difference in the dose, like between 20, a hundred, and a thousand, there's a huge difference, that's why we have control for both. But for 20 and a hundred, we found from here, from the other previous studies that they we didn't need to do it, so she didn't do it.  Q. But isn't there okay, I see. So you think that for purposes of this test, that the control for the 20 and the 100 was the same control, one control for both of those?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. Yes. Q. Wasn't there only one control for each cell line? A. For this experiment? Q. Yes. A. No, there wasn't. Q. You had one set of control cells for each dose? A. Correct. Q. Does the notebook report the treating of the controls for each of the cell lines? A. What notebook? Q. The notebook we're looking at. A. Yeah. It says right there, 20 microgram control, hundred microgram control, 20 microgram treatment, hundred microgram treatment. Q. Does it report the treatment of controls anywhere besides in the in the chart? In other words, is it reported elsewhere in the notebook? A. I don't remember. MS. O'DELL: For which finding? THE WITNESS: I don't remember for what month are you referring to.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	normal oh. Yes, I think she did the control for 20 and a hundred at one time.  Q. How can you do a control for 20 and a hundred at the same time?  A. Because they're very close doses, so we don't as you just said to me, you really didn't need to do more than one control, but because the doses are big, there's a huge difference in the dose, like between 20, a hundred, and a thousand, there's a huge difference, that's why we have control for both. But for 20 and a hundred, we found from here, from the other previous studies that they we didn't need to do it, so she didn't do it.  Q. But isn't there okay, I see. So you think that for purposes of this test, that the control for the 20 and the 100 was the same control, one control for both of those?  A. Correct. Will serve for both, yes.  Q. Do you know which dose she applied to the control? Was it 20 or a hundred?  A. No, the control, you don't apply those.  Q. Well, do you apply the DMSO?  A. Yes.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. Yes. Q. Wasn't there only one control for each cell line? A. For this experiment? Q. Yes. A. No, there wasn't. Q. You had one set of control cells for each dose? A. Correct. Q. Does the notebook report the treating of the controls for each of the cell lines? A. What notebook? Q. The notebook we're looking at. A. Yeah. It says right there, 20 microgram control, hundred microgram control, 20 microgram treatment, hundred microgram treatment. Q. Does it report the treatment of controls anywhere besides in the in the chart? In other words, is it reported elsewhere in the notebook? A. I don't remember. MS. O'DELL: For which finding? THE WITNESS: I don't remember for what month are you referring to.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	normal oh. Yes, I think she did the control for 20 and a hundred at one time.  Q. How can you do a control for 20 and a hundred at the same time?  A. Because they're very close doses, so we don't as you just said to me, you really didn't need to do more than one control, but because the doses are big, there's a huge difference in the dose, like between 20, a hundred, and a thousand, there's a huge difference, that's why we have control for both. But for 20 and a hundred, we found from here, from the other previous studies that they we didn't need to do it, so she didn't do it.  Q. But isn't there okay, I see. So you think that for purposes of this test, that the control for the 20 and the 100 was the same control, one control for both of those?  A. Correct. Will serve for both, yes.  Q. Do you know which dose she applied to the control? Was it 20 or a hundred?  A. No, the control, you don't apply those.  Q. Well, do you apply the DMSO?  A. Yes.

	Page 403		Page 405
1		1	that it is statistically significant, when the p-value
1 2	<ul><li>Q. I gotcha.</li><li>A. Thank you.</li></ul>	2	from the data we're looking at is .291?
3	Q. Go to page 53 now, please.	3	A. So maybe the asterisk again, this this
4	A. Okay.	4	is PowerPoint, and the asterisk can be shifted easily,
5	Q. If you go down to the table where you're	5	so if we're not hiding it. This is the data, .29.
6	reporting on A2780 cells	6	Anybody knows it's not statistically significant, and
7	A. Yes.	7	so maybe these asterisks were shifted or something. I
8	Q particularly the 1,000 microgram per	8	cannot tell you, but the data is right here. The data
9	milliliter talc, do you see that part of the table?	9	is in front of you.
10	A. I do.	10	Q. But the data is not included in your poster,
11	Q. The p-value noted there is .291, correct?	11	correct?
12	A. Yes, correct.	12	A. Correct.
13	Q. That's not statistically significant,	13	Q. So anyone looking at the poster would not
14	correct?	14	have access to the data we're looking at on page 53,
15	A. Correct.	15	correct?
16	Q. That's for GPX1, right?	16	MS. O'DELL: Object to the form.
17	A. Correct.	17	THE WITNESS: They don't have the
18	Q. Go back to the then, your poster	18	data, yes, but they can ask.
19	A. Okay.	19	BY MR. HEGARTY:
20	Q for this experiment.	20	Q. Turn over to page 55 of that part of the
21	A. Okay. GP GPX1.	21	notebook, please.
22	Q. If you look at the GPX1	22	A. 55.
23	A. A2780.	23	Q. We're again looking at the data for SOD3,
24	Q it's in the right hand on the	24	and in particular the A2780 cells. Do you see for the
25	right-hand side, the middle graph, correct?	25	100 microgram and 1,000 microgram treatments that your
	Page 404		Page 406
			rage 400
1	A. Yes.	1	
1 2	<ul><li>A. Yes.</li><li>Q. For the 1,000 dose average for the A2780,</li></ul>	1 2	p-values are above .05? They're .1692 and .1029? Do you see that, Doctor?
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2	Q. For the 1,000 dose average for the A2780,	2	p-values are above .05? They're .1692 and .1029? Do you see that, Doctor?
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2 3 4	Q. For the 1,000 dose average for the A2780, don't you list that as being statistically significant?  A. Let me look. So this which color would be this? That's the purple color. That's comparing comparing to this purple color. Okay. So this is	2 3 4	p-values are above .05? They're .1692 and .1029? Do you see that, Doctor?  A. Yes.  Q. And if you turn back to the poster and look at SOD3 on the left-hand side, the third graph down, for the 2780 for the hundred and the thousand I'm
2 3 4 5	Q. For the 1,000 dose average for the A2780, don't you list that as being statistically significant?  A. Let me look. So this which color would be this? That's the purple color. That's comparing comparing to this purple color. Okay. So this is comparing it to the 20 dose. Yeah, you see okay.	2 3 4 5	p-values are above .05? They're .1692 and .1029? Do you see that, Doctor?  A. Yes.  Q. And if you turn back to the poster and look at SOD3 on the left-hand side, the third graph down, for the 2780 for the hundred and the thousand I'm sorry, it's the fourth fourth graph down, for the
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2 3 4 5 6 7 8 9 10 11 12 13	Q. For the 1,000 dose average for the A2780, don't you list that as being statistically significant?  A. Let me look. So this which color would be this? That's the purple color. That's comparing comparing to this purple color. Okay. So this is comparing it to the 20 dose. Yeah, you see okay. So this this  MS. O'DELL: What are you referring to?  BY MR. HEGARTY:  Q. The p-value?  A. The p-value here is comparing the thousand to its control. The p-value here, if you see the	2 3 4 5 6 7 8 9 10 11 12 13	p-values are above .05? They're .1692 and .1029? Do you see that, Doctor?  A. Yes.  Q. And if you turn back to the poster and look at SOD3 on the left-hand side, the third graph down, for the 2780 for the hundred and the thousand I'm sorry, it's the fourth fourth graph down, for the hundred and the thousand, you're reporting those to be statistically significant at a p-value of less than .05, correct?  MS. O'DELL: Do you need if you need to see that the poster in larger, if it's difficult to read, i f you can read it, fine, great.  THE WITNESS: Yeah.
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	Page 407		Page 409
1	A. Not correct. Not all of them.	1	poster that we're looking at right now, and I don't
2	Q. Well, I'm sorry. Fair point.	2	know where it is.
3	A. Yeah.	3	A. Okay.
4	Q. The ones we looked at	4	Q. The only abstract I could find for
5	A. Yes.	5	March 2018 to SRI was 25.
6	Q the 2780 for a hundred and the 2780 for a	6	A. That was the breaking late-breaking
7	thousand are not statistically significant?	7	abstract, CA-125, but there is an abstract for this.
8	A. For this specific mark, yes.	8	Q. And okay. We'll come back once we look
9	Q. Correct, okay.	9	through your documents to see if we can find the
10	A. Yeah. So I'm concerned about this maybe	10	abstract that corresponds to that.
11	shifted or something. I don't know what the answer is.	11	A. So when you say you didn't find it, you
12	Q. The poster that we've been looking at, was	12	didn't find it online?
13	this a poster that you presented at SRI?	13	Q. I did not find it in the documents that have
14	A. SRI.	14	been produced, or at least I I overlooked it. And
15	Q. The SRI meeting in March?	15	we'll go through all the abstracts to make sure that
16	A. March	16	I'm
17	MS. O'DELL: 2017?	17	MS. O'DELL: I think you
18	THE WITNESS: 2017?	18	BY MR. HEGARTY:
19	BY MR. HEGARTY:	19	Q incorrect or correct.
20	Q. Yes.	20	MS. O'DELL: It was produced in the
21	A. No.	21	documents that were provided to you.
22	Q. March 2018?	22	MR. HEGARTY: Which one are you
23	A. 2018.	23	referring to that you think corresponds with that?
24	MS. O'DELL: 2018, excuse me.	24	MS. O'DELL: Let me ask Dr. Saed, is
25	THE WITNESS: March 2018.	25	that the abstract that corresponds with the poster?
	Page 408		Page 410
1	BY MR. HEGARTY:	1	You might not
1 2	BY MR. HEGARTY: Q. Was there an abstract that went along with	1 2	You might not THE WITNESS: Talcum powder enhanced
			_
2	Q. Was there an abstract that went along with	2	THE WITNESS: Talcum powder enhanced
2	Q. Was there an abstract that went along with that?	2 3	THE WITNESS: Talcum powder enhanced oxidase yes.
2 3 4	<ul><li>Q. Was there an abstract that went along with that?</li><li>A. I don't understand your question.</li></ul>	2 3 4	THE WITNESS: Talcum powder enhanced oxidase yes.  MS. O'DELL: And it's the it was
2 3 4 5	<ul><li>Q. Was there an abstract that went along with that?</li><li>A. I don't understand your question.</li><li>Q. Well, you have a poster there, correct?</li></ul>	2 3 4 5	THE WITNESS: Talcum powder enhanced oxidase yes.  MS. O'DELL: And it's the it was labeled Saed Lecture 2018A, Oxidative Stress.
2 3 4 5 6	<ul> <li>Q. Was there an abstract that went along with that?</li> <li>A. I don't understand your question.</li> <li>Q. Well, you have a poster there, correct?</li> <li>A. Yes.</li> </ul>	2 3 4 5 6	THE WITNESS: Talcum powder enhanced oxidase yes.  MS. O'DELL: And it's the it was labeled Saed Lecture 2018A, Oxidative Stress.  BY MR. HEGARTY:
2 3 4 5 6 7	<ul> <li>Q. Was there an abstract that went along with that?</li> <li>A. I don't understand your question.</li> <li>Q. Well, you have a poster there, correct?</li> <li>A. Yes.</li> <li>Q. Was there an abstract that was published for</li> </ul>	2 3 4 5 6 7	THE WITNESS: Talcum powder enhanced oxidase yes.  MS. O'DELL: And it's the it was labeled Saed Lecture 2018A, Oxidative Stress.  BY MR. HEGARTY:  Q. And I'll tell you the reason that I didn't
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	Page 411		Page 413
1	Q. Stay with this poster for a little bit	1	talcum powder. And we only did PCR here. This is very
2	longer.	2	preliminary.
3	A. Oh.	3	Q. Okay.
4	Q. Go back to it, please. Would you look at	4	A. That's why we repeated this is why we
5	the Results section, please, Doctor?	5	repeated the whole study with the tri-purses (ph), and
6	A. Of the abstract?	6	we extensively did the enzymes, the ELISAs, everything.
7	Q. Of the poster.	7	Q. Do you have a copy of your manuscript there,
8	A. Sorry.	8	Doctor, the one for Reproductive Sciences?
9	Q. Do you see the results in the lower	9	A. Do I have a copy of that?
10	left-hand corner?	10	Q. I'll show you. It's been marked previously
11	A. The conclusion you're talking about?	11	as Exhibit 7. That's your manuscript to Reproductive
12	Q. No, the Results section?	12	Sciences, correct?
13	A. Oh, I'm sorry, yes, here.	13	MS. O'DELL: What's the date on it?
14	Q. The Results section says there was a marked	14	THE WITNESS: January 3rd, yes.
15	increase in MRNA levels of the pro-oxidant enzymes iNOS	15	MS. O'DELL: Okay.
16	and MPO in talc-treated ovarian cancer cell line	16	BY MR. HEGARTY:
17	macrophages in normal ovarian epithelial cells, all as	17	Q. Turn over to page seven of Exhibit 7,
18	compared to their controls. Then it cites the figure.	18	please.
19	A. Um-hum.	19	A. Exhibit 7, page seven. Okay.
20	Q. Additionally, there was a marked increase in	20	Q. About three-fourths of the way down, you're
21	the MRNA levels of the anti-oxidant enzymes CAT, SOD3,	21	reporting on anti-oxidant enzymes GPX and GSR for both
22	GSR, GPX1 and GS1P1, in talc-treated ovarian cancer	22	PCR and ELISA assays, correct?
23	treated cells in normal ovarian epithelial cells, as	23	A. Correct.
24	all compared to their controls, correct?	24	Q. You report there that GPX and GSR were
25	A. That's what it says.	25	significantly decreased in response to talc treatment
	Page 412		Page 414
1	Q. So in this experiment, you show that both	1	under both PCR and ELISA assays, correct?
2	pro and anti-oxidants had a marked increase, correct?	2	- · · · · · · · · · · · · · · · · · · ·
3	•		A. Correct.
	A. Let me check this. Hold on one second. So	3	Correct.     That's opposite of what you reported in your
4	A. Let me check this. Hold on one second. So iNOS increased, MPO increased, GPX goes down, SOD3 goes		Q. That's opposite of what you reported in your
	iNOS increased, MPO increased, GPX goes down, SOD3 goes	3	Q. That's opposite of what you reported in your abstract, correct?
4		3 4	<ul><li>Q. That's opposite of what you reported in your abstract, correct?</li><li>A. Not correct.</li></ul>
4 5	iNOS increased, MPO increased, GPX goes down, SOD3 goes up, GSR goes up. Some goes up. Catalase goes up. Yes.	3 4 5	<ul><li>Q. That's opposite of what you reported in your abstract, correct?</li><li>A. Not correct.</li><li>Q. Well, your abstract said that you reported a</li></ul>
4 5 6	iNOS increased, MPO increased, GPX goes down, SOD3 goes up, GSR goes up. Some goes up. Catalase goes up. Yes.  Q. But in your manuscript, you reported an	3 4 5 6	<ul> <li>Q. That's opposite of what you reported in your abstract, correct?</li> <li>A. Not correct.</li> <li>Q. Well, your abstract said that you reported a marked increase in the MRNA levels of anti-oxidant</li> </ul>
4 5 6 7	iNOS increased, MPO increased, GPX goes down, SOD3 goes up, GSR goes up. Some goes up. Catalase goes up. Yes.	3 4 5 6 7	Q. That's opposite of what you reported in your abstract, correct?  A. Not correct. Q. Well, your abstract said that you reported a marked increase in the MRNA levels of anti-oxidant enzymes that include GSR and GPX1. How is that not the
4 5 6 7 8	iNOS increased, MPO increased, GPX goes down, SOD3 goes up, GSR goes up. Some goes up. Catalase goes up. Yes.  Q. But in your manuscript, you reported an increase in pro-oxidant enzymes and a decrease in the	3 4 5 6 7 8	Q. That's opposite of what you reported in your abstract, correct?  A. Not correct. Q. Well, your abstract said that you reported a marked increase in the MRNA levels of anti-oxidant enzymes that include GSR and GPX1. How is that not the exact opposite?
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	Dago 415		Dago 417
-	Page 415		Page 417
1	MS. O'DELL: And you're referring to	1	Q and instead it reads 0, 200 and 500
2	the manuscript?	2	micrograms per milliliter?
3	THE WITNESS: The manuscript.	3	A. Per mil. This this is a this
4 5	BY MR. HEGARTY:	4	this abstract is this poster. So and I will I
5 6	Q. Do you remember me strike that. Do you	5 6	will double-check it, but I think it's a typo. This
7	remember us just looking at an abstract that talked about results from dosages of talc of 0, 200 and 500?	7	abstract is for the March meeting? Yes, so it is.
8	Do you remember looking at that abstract?	8	It's gotta be a typo.  Q. Who does the proofreading of your abstracts,
9	MS. O'DELL: What are you referring	9	Doctor?
10	to?	10	A. I do.
11	MR. HEGARTY: Well, the abstract you	11	Q. And it's your testimony that you just missed
12	handed him. I'll show it to you. I'll mark it as	12	the dosages? Instead of having 0, 20 and a hundred,
13	MS. O'DELL: Are you referring him	13	and a thousand, you missed and listed it 0, 200 and
14	back to his deposition previously?	14	500?
15	MR. HEGARTY: No, the one we just	15	A. Is that possible? It could be. I don't
16	THE WITNESS: Yeah. This	16	know.
17	MR. HEGARTY: Let me ask a question.	17	Q. Is it your testimony that you did not run
18	MS. O'DELL: I'm sorry.	18	the same tests that you reported in your abstract and
19	DEPOSITION EXHIBIT 26	19	generated data for dosages at 200 and 500?
20	F-098 Abstract	20	MS. O'DELL: Object to the form.
21	WAS MARKED BY THE REPORTER	21	THE WITNESS: This is what I did.
22	FOR IDENTIFICATION	22	It's detailed here in the lab notebook, it's published
23	BY MR. HEGARTY:	23	in the poster. We are not hiding anything. The poster
24	Q. I'm marking for purposes of the deposition	24	was viewed by everybody at SRI meeting, so there's
25	Exhibit 26, which was that F dash 098 abstract that	25	nothing to hide here.
	Page 416		Page 418
1	counsel for Plaintiffs	1	BY MR. HEGARTY:
2			
	MS. O'DELL: Which one was marked?	2	Q. And you're pointing to your poster?
3	MR. HEGARTY: It's the same one that	3	<ul><li>Q. And you're pointing to your poster?</li><li>A. The poster, yes. This is the final outcome</li></ul>
3 4	MR. HEGARTY: It's the same one that you just had.	3 4	<ul><li>Q. And you're pointing to your poster?</li><li>A. The poster, yes. This is the final outcome of abstract.</li></ul>
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	Page 419		Page 421
1	Q. Can you identify in looking through the	1	Q. Yes, that page.
2	first several pages of this notebook, or throughout,	2	A. This? Okay.
3	whether there is any of your handwriting in this part	3	Q. There looks to be some odd handwriting on
4	of the notebook?	4	that page. Do you know what that is? It looks like
5	A. Any of my handwriting?	5	almost Chinese characters.
6	Q. Correct.	6	A. Yeah. This is a methodology. We just copy
7	A. I don't remember, but I'm sure, if I see it.	7	it.
8	Particularly I don't do it, but I don't see in here	8	Q. I'm talking about the characters that look
9	anything here in my handwriting.	9	like they're Chinese on that page.
10	Q. Keep going.	10	A. Yeah.
11	A. Keep going. I can't say yet. What page you	11	Q. Do you see that?
12	are looking for?	12	A. Yeah. I don't read Chinese.
13	Q. I'm not looking at any particular page.	13	O. Is that Chinese?
14	A. You want me to keep going?	14	A. I don't know. I really don't know. But let
15	Q. For example, if you look over at page 63.	15	me explain something, please, so I make you comfortable
16	A. 63?	16	with this. This is a methodology page. This just
17	Q. None of that is your handwriting on that	17	describing the method. We copy it from you know,
18	page?	18	once we do RNA extraction, this is indicate what kit we
19	A. 63.	19	use, what number, and, you know, the most important
20	MS. O'DELL: And you're referring	20	things.
21	to	21	O. Understood.
22	THE WITNESS: This?	22	A. But I don't know what that means.
23	MS. O'DELL: page 63 as it was	23	Q. My question only was only concerned if
24	indicated in the lab notebook	24	you could interpret that dark writing on that page.
25	THE WITNESS: Show me, please.	25	A. I do not read Chinese. I can't read it.
	, p		
	Page 420		Page 422
1	MR. HEGARTY: Correct, yeah.	1	Q. Where in this part of the notebook are there
2	THE WITNESS: Can you show me the	2	totals for confluency?
3	page?	3	A. One more time, please.
4	MS. O'DELL: Bates 35.	4	Q. Where in this notebook are there totals for
5	THE WITNESS: Yes, this, no,	5	confluency with regard to your cell tests?
6	nothing I don't I don't have anything here.	6	A. Can you please explain the word total?
7	BY MR. HEGARTY:	7	Q. Well, what does confluence mean?
8	Q. Do you know whose handwriting that is?	8	A. Yeah, thank you.
9	A. That is either Florie or Ira.	9	Q. What does that mean?
10	Q. I'll come back if I	10	A. Confluence, when cells reach their double
11	A. I don't know. I don't know.	11	timing of division. Like we always start with if we
12	Q. I'll come back if I want you to look at it	12	want to start with one million cells for an experiment,
13	further.	13	we go half, and then we leave it for couple of days
14	A. Okay.	14	when they double so we can do the experiment. So they
15	Q. If you go to Bates number SAED 5.	15	confluence when they reach 90 percent filling the
16	A. What page? What page?	16	plates.
17	Q. Okay. If you want to look at the original,	17	Q. Go over to page 31 of your notebook, please.
18	but we're going to have to work from the handwritten	18	At the bottom there a
19	notes.	19	A. What
20	A. Yeah, I like to look at the original,	20	Q there's an entry dated 1-29-18.
21	please.	21	A. Can you just show me where? 31?
22	Q. Okay. Go to it looks like 33, page 33.	22	Q. 31. It says 31 in the lower left-hand
23	A. Okay. The methodology.	23	corner.
ب ہے			
24	Q. It should look like this.	24	A. This one?
	<ul><li>Q. It should look like this.</li><li>A. The methodology, yeah. No. Hold on.</li></ul>	25	A. This one? Q. Yes.

	Page 423		Page 425
1		,	
1 2	<ul><li>A. Yeah.</li><li>Q. At the very bottom you say, 2 mil cells plus</li></ul>	1 2	MS. O'DELL: Object to the form.  THE WITNESS: She is referring to
3	Q. At the very bottom you say, 2 mil cells plus 8 mils medium 100, and then dish. Do you see that?	3	some of these cells here.
4	A. Um-hum.	4	BY MR. HEGARTY:
5	Q. And then underneath that it says, cells	5	Q. What are you pointing to?
6	doubled in one day.	6	A. On the top.
7	A. Um-hum.	7	Q. How do you know she's you're talking
8	Q. Do you see that?	8	about the top of the next page, page 32?
9	A. Um-hum.	9	A. No, same page
10	Q. How long does it normally take for	10	Q. Okay.
11	epithelial cells to double?	11	A same page. Same page goal, total cells,
12	A. That's not a clear question. Are you	12	macrophages KOV (ph), TOV, A2780, those cells. Now,
13	talking about epithelial ovarian cancer cells?	13	what I'm saying is, this statement refers to the cancer
14	Q. Well, let's talk about cancer cells first,	14	cells, because cancer cells double in one day. We
15	and then normal cells.	15	already know that.
16	A. Cancer cells, they double quick.	16	Q. So you're assuming that's what she's talking
17	Q. How quick?	17	about?
18	A. Very quickly, like next day.	18	MS. O'DELL: Object to the form.
19	Q. How about noncancerous cells, normal ovarian	19	BY MR. HEGARTY:
20	epithelial cell?	20	Q. Correct?
21	A. Normal ovarian epithelial take longer time.	21	A. I know what she's talking about.
22	Q. Approximately how much longer?	22	Q. And whose handwriting is this?
23	A. It depends on the lot. I think it's like a	23	A. That's Florie probably.
24	week to grow. They're very slow-growing cells. Like,	24	Q. Under the date 1-29-18 it says subculture
25	for example, normal macrophages, they double quickly.	25	cells. What does that mean?
	Page 424		Page 426
1	Q. In your cell tests, did all of the cells	1	A. It means you split them.
2	that you tested double in one day?	2	Q. How do you measure cell doubling?
3	MS. O'DELL: Object to the form.	3	A. You start you count them. You start with
4	THE WITNESS: I just told you.	4	half a million, next day you get one million, you use a
5	BY MR. HEGARTY:	5	hemocytometer, you measure them.
6	Q. Where is the data in the lab notebook that	6	Q. What is the instrument you use?
7	reports on the length of time it took for the cells to	7	A. Hemocytometer.
8	double?	8	MS. O'DELL: Would you spell that,
9	A. That's from our past experience with these	9	please?
10	cells. We worked with these cells for 20 years.	10	THE WITNESS: I can't.
11 12	Q. Why did someone then report, though, here	11 12	MS. O'DELL: Okay.
13	that certain cells doubled in one day?	13	BY MR. HEGARTY: Q. Do you record
13	<ul><li>A. She wants to be extra good.</li><li>Q. Can you tell what cells she's talking about</li></ul>	14	Q. Do you record A. I can't, I can't.
15	here?	15	A. I can t, I can t.  Q. Do you record the readings you get from a
16	A. The cancer cells, usually.	16	hemocytometer?
17	Q. Are the cells identified in this part of the	17	A. You don't get reading. Okay. Here's what
18	notebook?	18	we do. We look at the cells. When you put half a
19	A. Except for the normal, yes.	19	million tells in 10 millimeter dish, they're like half
20	Q. Well, I'm talking about the entry on 1-29-18	20	full. You can look under the microscope, and you see
21	we've been looking at on page 31.	21	half full.
22	A. Here.	22	We got experience because we
23	Q. Can you tell from the entry itself	23	we've worked with these cells for a very long time.
24	A. Oh.	24	And then the next day when you look at the same culture
25	Q what cells she's referring to?	25	dish under the microscope, you'll see it all over the
	-		

dish, so we we reach confluency, we can work with them.  You don't want to work with cells when they are spaced out because they don't like to be spaced out. They like to be simulate body where they attach, touch each other.  MR. HEGARTY: Let's take a short break, please. Thank you.  THE VIDEOGRAPHER: We're going off the record, the time is 10:00.  THE VIDEOGRAPHER: We're back on the record at 10:23.  BY MR. HEGARTY:  BY MR. HEGARTY:  THE VIDEOGRAPHER: We're back on the record at 10:23.  What we marked as Exhibit Number 1, which is your notebook, Exhibit Number 27, which was the which is the manuscript submission to the Journal of Gynecolog Oncology; is that correct?  A. I do.  Q. That shows a submission date of August 22 018. There's a cover letter on about the second partial or third page. Do you see that?  A. I do.  Q. That letter is dated August 26th, 2018; is that correct?  A. Yes. 22nd.  Q. August 22nd, 2018?  A. Yes.  Q. The statistical analysis we just looked at is dated October 6th, 2018, so how could you submission, we did not use the statistic analysis was not done until October 6th, 2018; analysis was not done until October 6th, 2018; analysis was not done until October 6th, 2018.  A. Good question. So for the Gynecology oncology submission, we did not use the statistic analysis was not done until October 6th, 2018; analysis was not done until Octo	
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A. Statistical section?  Q. Correct. That section is dated October 6th,  20	
Q. Correct. That section is dated October 6th, 20 lere. We just did it our the p-value, like what you noticed. We didn't we didn't submit a 21 noticed. We didn't we didn't submit a 22 statistical professional statistician in the in 23 Q. Who was the statistician for your test 24 results? 25 A. Steven. I forgot his last name. He  Page 428  A. I'm trying to look for it, if we did. It says oh, okay. No, I take that back, I'm sorry. I misspoke. Okay. So this this this date here 4. I can find out, but I don't know his last 4. I can find out, but I don't know his last 4. I can find out, but I don't know his last 4. I can find out, but I don't know his last 4. I can find out, but I don't know his last 4. I can find out, but I don't know his last 4. I can find out, but I don't know his last 4. I can find out, but I don't know his last 4. I can find out, but I don't know his last 4. I can find out, but I don't know his last 4. I can find out, but I don't know his last 4. I can find out, but I don't know his last 4. I can find out, but I don't know his last 4. I can find out, but I don't know his last 4. I can find out, but I don't know his last 4. I can find out, but I don't know his last	
21 2018, correct? 22 A. Correct. 23 Q. Who was the statistician for your test 24 results? 25 A. Steven. I forgot his last name. He  26 Page 428  1 works he works with us in the department. 27 Q. Is he listed as one of the authors of your 28 manuscript? 3 manuscript? 4 A. No. 5 Q. You don't know his last name? 6 A. I can find out, but I don't know his last 20 statistical professional statistician in the in 22 the manuscript. Just it says here, if you look at 23 the manuscript. Just it says here, if you look at 24 the materials and method, we just did the simple 25 p-value comparison test. That's all.  Page 428  Page 428  A. I'm trying to look for it, if we did. It 4 says oh, okay. No, I take that back, I'm sorry. I misspoke. Okay. So this this this date here 4 when we put it in the notebook, that's not when the	from
A. Correct.  Q. Who was the statistician for your test results?  A. Steven. I forgot his last name. He  Page 428  A. No.  Q. Do you describe the Finkel p-value comparison test in the manuscript?  A. I'm trying to look for it, if we did. It says oh, okay. No, I take that back, I'm sorry. I misspoke. Okay. So this this date here when we put it in the notebook, that's not when the	u
Q. Who was the statistician for your test results?  A. Steven. I forgot his last name. He  Page 428  Page	
results?  A. Steven. I forgot his last name. He  Page 428  A. Steven. I forgot his last name. He  Page 428  Page 428  Page 428  Page 428  A. No.  Page 428	
Page 428  A. No.  Page 428  Page 428	
Page 428  Page 428  Page 4:  Q. Do you describe the Finkel p-value comparison test in the manuscript?  A. I'm trying to look for it, if we did. It says oh, okay. No, I take that back, I'm sorry. I  Q. You don't know his last name?  A. I can find out, but I don't know his last  page 4:  Q. Do you describe the Finkel p-value comparison test in the manuscript?  A. I'm trying to look for it, if we did. It says oh, okay. No, I take that back, I'm sorry. I  misspoke. Okay. So this this this date here when we put it in the notebook, that's not when the	
works he works with us in the department.  Q. Is he listed as one of the authors of your  manuscript?  A. No.  Q. You don't know his last name?  A. I can find out, but I don't know his last  Q. Do you describe the Finkel p-value  comparison test in the manuscript?  A. I'm trying to look for it, if we did. It  says oh, okay. No, I take that back, I'm sorry. I  misspoke. Okay. So this this this date here  when we put it in the notebook, that's not when the	
Q. Is he listed as one of the authors of your 2 comparison test in the manuscript?  A. I'm trying to look for it, if we did. It says oh, okay. No, I take that back, I'm sorry. I  Q. You don't know his last name? 5 misspoke. Okay. So this this date here  A. I can find out, but I don't know his last 6 when we put it in the notebook, that's not when the	30
3 manuscript? 3 A. I'm trying to look for it, if we did. It 4 A. No. 4 says oh, okay. No, I take that back, I'm sorry. I 5 Q. You don't know his last name? 5 misspoke. Okay. So this this this date here 6 A. I can find out, but I don't know his last 6 when we put it in the notebook, that's not when the	
4 A. No. 4 says oh, okay. No, I take that back, I'm sorry. I 5 Q. You don't know his last name? 5 misspoke. Okay. So this this this date here 6 A. I can find out, but I don't know his last 6 when we put it in the notebook, that's not when the	
5 Q. You don't know his last name? 5 misspoke. Okay. So this this date here 6 A. I can find out, but I don't know his last 6 when we put it in the notebook, that's not when the	
6 A. I can find out, but I don't know his last 6 when we put it in the notebook, that's not when the	
7 name Ctavan Malialus an aamathina 7 - 4 1 1 1 1	
7 name. Steven Kolisky or something. 7 statistics were performed. I can't give you the exact	;t
8 Q. Was the data sent to him in a blinded 8 date when the statistics were performed. I have	
9 fashion? 9 to go back. I'm sorry, I misspoke. I have to go back	
A. This is how the data was sent to him. 10 and tell you exactly when we did the statistics. Bu	t
Q. You're pointing to pages 115 through 124? 11 here we describe the statistics that's done by this	
12 A. 115 yes, this is how this is how the 12 method from Steven.	
data were. 13 Q. What page are you pointing to?	
MS. O'DELL: And just to be clear, 14 A. It's page seven. Yeah, this is done by	
what data are you referring to? What pages?  15 statistician, so this is done by him.	
THE WITNESS: The data from PCR data 16 Q. Right. The	
17 115 and 116, and then ELISA data 117, 118. 17 A. The data was done by him.	
DEPOSITION EXHIBIT 27 18 Q. Your statistical description in the	
Manuscript Submission to Journal of 19 manuscript submitted to the Gynecologic the Journal of 19 manuscript submitted to the Gynecologic the Journal of 19 manuscript submitted to the Gynecologic the Journal of 19 manuscript submitted to the Gynecologic the Journal of 19 manuscript submitted to the Gynecologic the Journal of 19 manuscript submitted to the Gynecologic the Journal of 19 manuscript submitted to the Gynecologic the Journal of 19 manuscript submitted to the Gynecologic the Journal of 19 manuscript submitted to the Gynecologic the Journal of 19 manuscript submitted to the Gynecologic the Journal of 19 manuscript submitted to the Gynecologic the Journal of 19 manuscript submitted to the Gynecologic the Journal of 19 manuscript submitted to the Gynecologic the Journal of 19 manuscript submitted to the Gynecologic the Journal of 19 manuscript submitted to the Gynecologic the Journal of 19 manuscript submitted to 19 manuscript submitted s	ırnal
20 Gynecologic Oncology 20 of Gynecologic Oncology is the same as in your	
21 WAS MARKED BY THE REPORTER 21 manuscript?	
22 FOR IDENTIFICATION 22 A. Correct.	
23 BY MR. HEGARTY: 23 Q. So	
Q. Doctor, we received as part of the materials produced to us last week what I'm marking as book.  A. That's the date where we entered it in the book.	
25 COOK	I

	Page 431		Page 433
1	Q. 10-6-18 is the date it was entered into the	1	MS. O'DELL: Objection to the form.
2	book?	2	THE WITNESS: Okay. If you read
3	A. Correct. I remember it now.	3	here, if you go to the Results section of the
4	Q. What was the date the statistical analysis	4	manuscript, now, each each section of the results
5	was done?	5	shows what the comparison were and what the actual
6	A. I can find out. I don't remember.	6	p-value is for that comparison.
7	Q. Is there any way	7	BY MR. HEGARTY:
8	A. It's definitely different.	8	Q. Okay. Why was DMSO selected as a dilutant
9	Q or how can you find out?	9	for tale? Why that particular material?
10	A. I can go back and ask Steven. But it's	10	MS. O'DELL: Object to the form.
11	definitely if we if we listed it in the OB/GYN	11	THE WITNESS: Yeah, the question is
12	Oncology submission, so it's definitely before that,	12	not clear. I don't understand what you mean by
13	but I cannot remember the exact date.	13	BY MR. HEGARTY:
14	Q. Whose handwriting is is describing the	14	Q. Well, were there were there alternatives
15	statistical analysis?	15	to DMSO?
16	A. This is	16	A. Were they to dissolve talc?
17	MS. O'DELL: What page are you	17	Q. Correct.
18	referring to, please?	18	A. We got this from the other papers where they
19	THE WITNESS: This is page 114.	19	used the let me let me try to remember. I don't
20	MR. HEGARTY: 114.	20	know if they were alternatives, but we used this DMSO
21	THE WITNESS: This is Florie.	21	always in our lab to dissolve organic things, nonporous
22	BY MR. HEGARTY:	22	stuff.
23	Q. Do you know when this	23	Q. Some of your assays rely on optical density
24	A. This was	24 25	measurements, correct?
25	Q was added to the notebook? Was it added	25	A. Correct.
	Page 432		Page 434
1	on 10-6-18, or added at another time and dated 10-6-18?	1	Q. That includes PCR and ELISA, correct?
2	MS. O'DELL: Object to the form.	2	A. ELISA you mean?
3	THE WITNESS: I'm not sure when	3	Q. ELISA.
4	we when we added this, but that was the last thing	4	A. I'm not sure about PCR, what are you
5	we added, I think.	5	referring to, colorimetric?
6	BY MR. HEGARTY:	6	Q. Well, do you understand
7	Q. And how were the p-values determined? By	7	A. I'm confused now.
8	what comparison?	8	Q. Do you know whether PCR testing relies on
9	A. It states very clearly here in the	9	optical density measurements?
		1 10	
10	statistical section, if you read it. It's very	10	A. Absolutely not.
11	complicated statistical methods, because they are not	11	Q. How about ELISA?
11 12	complicated statistical methods, because they are not normally distributed, so they had to use this method	11 12	<ul><li>Q. How about ELISA?</li><li>A. Correct, some of the ELISA are colorimetric,</li></ul>
11 12 13	complicated statistical methods, because they are not normally distributed, so they had to use this method to there are a lot of comparison to do that,	11 12 13	<ul><li>Q. How about ELISA?</li><li>A. Correct, some of the ELISA are colorimetric, is that what you're asking?</li></ul>
11 12 13 14	complicated statistical methods, because they are not normally distributed, so they had to use this method to there are a lot of comparison to do that, comparison between treated versus untreated, comparison	11 12 13 14	<ul><li>Q. How about ELISA?</li><li>A. Correct, some of the ELISA are colorimetric, is that what you're asking?</li><li>Q. Well, I'm talking about optical density</li></ul>
11 12 13 14 15	complicated statistical methods, because they are not normally distributed, so they had to use this method to there are a lot of comparison to do that, comparison between treated versus untreated, comparison between different doses, comparison between normal	11 12 13 14 15	<ul> <li>Q. How about ELISA?</li> <li>A. Correct, some of the ELISA are colorimetric, is that what you're asking?</li> <li>Q. Well, I'm talking about optical density measurements.</li> </ul>
11 12 13 14 15	complicated statistical methods, because they are not normally distributed, so they had to use this method to there are a lot of comparison to do that, comparison between treated versus untreated, comparison between different doses, comparison between normal versus cancer. It's a lot of that.	11 12 13 14 15 16	<ul> <li>Q. How about ELISA?</li> <li>A. Correct, some of the ELISA are colorimetric, is that what you're asking?</li> <li>Q. Well, I'm talking about optical density measurements.</li> <li>A. Yeah, it's colorimetric.</li> </ul>
11 12 13 14 15 16	complicated statistical methods, because they are not normally distributed, so they had to use this method to there are a lot of comparison to do that, comparison between treated versus untreated, comparison between different doses, comparison between normal versus cancer. It's a lot of that.  Q. That was my question, is to what what	11 12 13 14 15 16 17	<ul> <li>Q. How about ELISA?</li> <li>A. Correct, some of the ELISA are colorimetric, is that what you're asking?</li> <li>Q. Well, I'm talking about optical density measurements.</li> <li>A. Yeah, it's colorimetric.</li> <li>Q. What is the principle behind optical density</li> </ul>
11 12 13 14 15 16 17	complicated statistical methods, because they are not normally distributed, so they had to use this method to there are a lot of comparison to do that, comparison between treated versus untreated, comparison between different doses, comparison between normal versus cancer. It's a lot of that.  Q. That was my question, is to what what different samples are you doing the comparisons across?	11 12 13 14 15 16 17 18	<ul> <li>Q. How about ELISA?</li> <li>A. Correct, some of the ELISA are colorimetric, is that what you're asking?</li> <li>Q. Well, I'm talking about optical density measurements.</li> <li>A. Yeah, it's colorimetric.</li> <li>Q. What is the principle behind optical density assays; that is, what do they measure?</li> </ul>
11 12 13 14 15 16 17 18	complicated statistical methods, because they are not normally distributed, so they had to use this method to there are a lot of comparison to do that, comparison between treated versus untreated, comparison between different doses, comparison between normal versus cancer. It's a lot of that.  Q. That was my question, is to what what different samples are you doing the comparisons across?  A. So all comparisons were statistically	11 12 13 14 15 16 17 18 19	<ul> <li>Q. How about ELISA?</li> <li>A. Correct, some of the ELISA are colorimetric, is that what you're asking?</li> <li>Q. Well, I'm talking about optical density measurements.</li> <li>A. Yeah, it's colorimetric.</li> <li>Q. What is the principle behind optical density assays; that is, what do they measure?</li> <li>A. They measure change in color that sometimes</li> </ul>
11 12 13 14 15 16 17 18 19	complicated statistical methods, because they are not normally distributed, so they had to use this method to there are a lot of comparison to do that, comparison between treated versus untreated, comparison between different doses, comparison between normal versus cancer. It's a lot of that.  Q. That was my question, is to what what different samples are you doing the comparisons across?  A. So all comparisons were statistically significant. We were particularly interested between	11 12 13 14 15 16 17 18 19 20	<ul> <li>Q. How about ELISA?</li> <li>A. Correct, some of the ELISA are colorimetric, is that what you're asking?</li> <li>Q. Well, I'm talking about optical density measurements.</li> <li>A. Yeah, it's colorimetric.</li> <li>Q. What is the principle behind optical density assays; that is, what do they measure?</li> <li>A. They measure change in color that sometimes you cannot see if you add a substance to it.</li> </ul>
11 12 13 14 15 16 17 18 19 20 21	complicated statistical methods, because they are not normally distributed, so they had to use this method to there are a lot of comparison to do that, comparison between treated versus untreated, comparison between different doses, comparison between normal versus cancer. It's a lot of that.  Q. That was my question, is to what what different samples are you doing the comparisons across?  A. So all comparisons were statistically significant. We were particularly interested between control and treatment.	11 12 13 14 15 16 17 18 19 20 21	<ul> <li>Q. How about ELISA?</li> <li>A. Correct, some of the ELISA are colorimetric, is that what you're asking?</li> <li>Q. Well, I'm talking about optical density measurements.</li> <li>A. Yeah, it's colorimetric.</li> <li>Q. What is the principle behind optical density assays; that is, what do they measure?</li> <li>A. They measure change in color that sometimes you cannot see if you add a substance to it.</li> <li>Q. Don't they measure the ability of the sample</li> </ul>
11 12 13 14 15 16 17 18 19 20 21	complicated statistical methods, because they are not normally distributed, so they had to use this method to there are a lot of comparison to do that, comparison between treated versus untreated, comparison between different doses, comparison between normal versus cancer. It's a lot of that.  Q. That was my question, is to what what different samples are you doing the comparisons across?  A. So all comparisons were statistically significant. We were particularly interested between control and treatment.  Q. So it's your understanding that the p-values	11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>Q. How about ELISA?</li> <li>A. Correct, some of the ELISA are colorimetric, is that what you're asking?</li> <li>Q. Well, I'm talking about optical density measurements.</li> <li>A. Yeah, it's colorimetric.</li> <li>Q. What is the principle behind optical density assays; that is, what do they measure?</li> <li>A. They measure change in color that sometimes you cannot see if you add a substance to it.</li> <li>Q. Don't they measure the ability of the sample to absorb or block light?</li> </ul>
11 12 13 14 15 16 17 18 19 20 21 22 23	complicated statistical methods, because they are not normally distributed, so they had to use this method to there are a lot of comparison to do that, comparison between treated versus untreated, comparison between different doses, comparison between normal versus cancer. It's a lot of that.  Q. That was my question, is to what what different samples are you doing the comparisons across?  A. So all comparisons were statistically significant. We were particularly interested between control and treatment.  Q. So it's your understanding that the p-values compared talc untreated compared the untreated	11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>Q. How about ELISA?</li> <li>A. Correct, some of the ELISA are colorimetric, is that what you're asking?</li> <li>Q. Well, I'm talking about optical density measurements.</li> <li>A. Yeah, it's colorimetric.</li> <li>Q. What is the principle behind optical density assays; that is, what do they measure?</li> <li>A. They measure change in color that sometimes you cannot see if you add a substance to it.</li> <li>Q. Don't they measure the ability of the sample to absorb or block light?</li> <li>A. They could. I don't know.</li> </ul>
11 12 13 14 15 16 17 18 19 20 21	complicated statistical methods, because they are not normally distributed, so they had to use this method to there are a lot of comparison to do that, comparison between treated versus untreated, comparison between different doses, comparison between normal versus cancer. It's a lot of that.  Q. That was my question, is to what what different samples are you doing the comparisons across?  A. So all comparisons were statistically significant. We were particularly interested between control and treatment.  Q. So it's your understanding that the p-values	11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>Q. How about ELISA?</li> <li>A. Correct, some of the ELISA are colorimetric, is that what you're asking?</li> <li>Q. Well, I'm talking about optical density measurements.</li> <li>A. Yeah, it's colorimetric.</li> <li>Q. What is the principle behind optical density assays; that is, what do they measure?</li> <li>A. They measure change in color that sometimes you cannot see if you add a substance to it.</li> <li>Q. Don't they measure the ability of the sample to absorb or block light?</li> </ul>

	Gilassaii Se		FII.D.
	Page 435		Page 437
1	referring to in particular?	1	MR. HEGARTY: I withdrew the
2	Q. Well, we just agreed that do you know one	2	question.
3	way or the other whether any of the assays that you ran	3	MS. O'DELL: No. If he has started
4	rely on optical density measurements?	4	to answer the question that's on the table, he's
5	A. Yes.	5	entitled to finish his answer.
6	MS. O'DELL: Object to the form.	6	MR. HEGARTY: I don't agree with
7	THE WITNESS: We some of the	7	that.
8	assays that we did for ELISA or, for example, protein	8	MS. O'DELL: Otherwise, the record
9	assays to determine how much protein you have, it	9	is not clear, and the doctor's trying to explain his
10	depends on change in wavelength and change in color in	10	answer.
11	response to wavelength.	11	MR. HEGARTY: The record is clear.
12	BY MR. HEGARTY:	12	I withdrew the question.
13	Q. But they	13	MS. O'DELL: No. The record is
14	A. It's called colorimetric.	14	not
15	Q. But it also but it measures the ability	15	BY MR. HEGARTY:
16	of the sample to absorb or block light, right?	16	Q. Doctor, listen to my question.
17	MS. O'DELL: Object to the form.	17	MS. O'DELL: You may finish your
18	THE WITNESS: I'm not sure about	18	answer, Doctor. Please continue.
19	absorb light. I'm not sure about that. It changes	19	MR. HEGARTY: No, you may not finish
20	color based on the reaction. For example, with a	20	your answer, because there's no question pending.
21	protein assay, if you oxidize copper one to copper two,	21	There's nothing to answer.
22	reduce it, that is accompanied by change in color. So	22	MS. O'DELL: That is
23	the colorimetric assay at this specific wavelength will	23	MR. HEGARTY: I withdrew the
24	determine that. The change, the degree, how much color	24	question.
25	is changed, which is proportional to how much protein	25	MS. O'DELL: Well, the answer
	Page 436		Page 438
1	you have.	1	THE WITNESS: You asked me a
2	BY MR. HEGARTY:	2	question.
3	Q. Can the presence of particulate matter in	3	MS. O'DELL: If the question
4	the solution analyzed in these optical assays affect	4	is
5	the results?	5	MR. HEGARTY: You are not answering
6	MS. O'DELL: Object to the form.	6	my question.
7	THE WITNESS: Again, there is a	7	MS. O'DELL: Excuse me. Excuse me.
8	misunderstanding of what's going on here.	8	Let him finish, but if you're not going to let him
9	BY MR. HEGARTY:	9	finish, the question is struck and the answer is
10	Q. Well, I'm not talking about	10	struck, so it can't be used against him
11	MS. O'DELL: Excuse me.	11	MR. HEGARTY: I agree.
12	BY MR. HEGARTY:	12	MS. O'DELL: if you're not going
13	Q what you specifically	13	to let him finish his answer.
14	A. Let me finish, please.	14	MR. HEGARTY: I agree.
15	MS. O'DELL: No, no. Excuse me.	15	BY MR. HEGARTY:
16	MR. HEGARTY: I'll withdraw the	16	Q. Let me ask a different question. Generally,
17	question.	17	without regard to the tests that you ran, can the
18	MS. O'DELL: Let him finish his	18	presence of particulate matter in solutions analyzed by
19	answer.	19	optical density assays affect the results?
20	MR. HEGARTY: I just withdrew the	20	MS. O'DELL: Object to the form of
21	question.	21	the question. Excuse me. This is also an area that
22	MS. O'DELL: No. He was	22	was covered last time, which representation by
23	MR. HEGARTY: If you want to ask him	23	Ms. Sharko was that topics previously covered would not
24	the question, you can ask him.	24	be reviewed again.
25	MS. O'DELL: No.	25	So Doctor, if you understand the

	Page 439		Page 441
1	question, I'll let this question be answered, but we're	1	carries proteins.
2	not going to revisit every topic.	2	Q. How is that?
3	MR. HEGARTY: That was not the	3	MS. O'DELL: I'm sorry.
4	representation	4	THE WITNESS: The methodology
5	MS. O'DELL: Yes, it was.	5	MS. O'DELL: You did not let him
6	MR. HEGARTY: and that was a	6	finish, Mark. Please finish, sir.
7	different question, and we said that I'm not going	7	THE WITNESS: Okay. This is really
8	to get into this debate because it's been debated	8	easy. I can explain. This is very easy, Mark. The
9	again. If you want to instruct him not to answer it,	9	methodology that you use, you treat, you wash the
10	you can do so at your peril.	10	cells, the cells are alive, you wash them, and then you
11	BY MR. HEGARTY:	11	lyse them, and then you extract proteins. Hopefully,
12	Q. Would you answer my question, please?	12	the method that you extract proteins that you use does
13	MS. O'DELL: Yeah, don't don't	13	not bring anything else, because we have been
14	don't say anything like that to me.	14	establishing this from 1960.
15	If you understand the question, you	15	It only carries proteins, and you go
16	may answer, Doctor. If you need the question repeated,	16	through different phases of purification until you
17	we can do that.	17	extract total proteins. And this is very standard
18	THE WITNESS: Okay. So just for the	18	method, and whatever you get there is only protein that
19	record, can you please repeat the question?	19	comes from cells.
20	BY MR. HEGARTY:	20	BY MR. HEGARTY:
21	Q. Generally, without regard to the testing	21	Q. How are you able to rule out that talc
22	that you ran, can the presence of particulate matter in	22	particles did not enter the cell and were picked up
23	solutions analyzed by optical density assays affect the	23	until the lyse and the extraction of proteins?
24	results?	24	A. You have
25	MS. O'DELL: Objection to the form.	25	MS. O'DELL: Objection to form.
23	MS. O BEEE. Objection to the form.	23	MS. O BEEE. Objection to form.
		l .	
	Page 440		Page 442
1	Page 440 You may answer any way you choose. You're not limited	1	Page 442 THE WITNESS: That's why you have a
1 2		1 2	
	You may answer any way you choose. You're not limited		THE WITNESS: That's why you have a
2	You may answer any way you choose. You're not limited to not talking about your own data.	2	THE WITNESS: That's why you have a control. We have a control, treated versus untreated,
2	You may answer any way you choose. You're not limited to not talking about your own data.  THE WITNESS: The answer is I	2	THE WITNESS: That's why you have a control. We have a control, treated versus untreated, we extracted proteins from both cells, and then you
2 3 4	You may answer any way you choose. You're not limited to not talking about your own data.  THE WITNESS: The answer is I mean, there's no answer yes or no here. This is very	2 3 4	THE WITNESS: That's why you have a control. We have a control, treated versus untreated, we extracted proteins from both cells, and then you only extract purified proteins. We have purified
2 3 4 5	You may answer any way you choose. You're not limited to not talking about your own data.  THE WITNESS: The answer is I mean, there's no answer yes or no here. This is very complicated answer. You want me to explain, I can	2 3 4 5	THE WITNESS: That's why you have a control. We have a control, treated versus untreated, we extracted proteins from both cells, and then you only extract purified proteins. We have purified proteins there.
2 3 4 5 6	You may answer any way you choose. You're not limited to not talking about your own data.  THE WITNESS: The answer is I mean, there's no answer yes or no here. This is very complicated answer. You want me to explain, I can explain. There is no yes or no. The question is	2 3 4 5 6	THE WITNESS: That's why you have a control. We have a control, treated versus untreated, we extracted proteins from both cells, and then you only extract purified proteins. We have purified proteins there.  We just determine we use the colorimetric assay, the BSA-based colorimetric assay to determine how much protein we have there so we can
2 3 4 5 6 7	You may answer any way you choose. You're not limited to not talking about your own data.  THE WITNESS: The answer is I mean, there's no answer yes or no here. This is very complicated answer. You want me to explain, I can explain. There is no yes or no. The question is wrong.	2 3 4 5 6 7	THE WITNESS: That's why you have a control. We have a control, treated versus untreated, we extracted proteins from both cells, and then you only extract purified proteins. We have purified proteins there.  We just determine we use the colorimetric assay, the BSA-based colorimetric assay to
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	Page 443		Page 445
1		1	
1 2	Q. Okay. If you turn to page 32 of your lab notebook.	1 2	BY MR. HEGARTY:
3	A. I am not mad, I'm just sorry. Which	3	Q. Well, you said you added DMSO to the controls that corresponded with the amount of talc in
4	one?	4	DMSO to the various cell lines, correct?
5	MS. O'DELL: Exhibit 2.	5	MS. O'DELL: Object to form.
6	BY MR. HEGARTY:	6	THE WITNESS: Okay, let me answer
7	Q. Page 32.	7	you. So you have, for example, EL1, which is
8	A. Okay.	8	macrophages, okay. You have one, two, three, four
9	MS. O'DELL: Exhibit 2.	9	plates, cells. You call them plates, right. So plate
10	THE WITNESS: This one?	10	one is untreated. You add we we make the
11	BY MR. HEGARTY:	11	concentrations 5, 10, 20, a hundred in a fixed volume
12	Q. There's handwriting it's dated 2-1-2018,	12	of DMSO. Let's say it's 50 microliters, okay.
13	correct?	13	So we add 50 microliters of DMSO to
14	A. Yes.	14	untreated, 50 microliters to that contain
15	Q. There's a handwritten reference to UNT,	15	5 micrograms to this one, 50 microliters DMSO that
16	both and then there's is a typed UNT. What does UNT	16	contains 20 micrograms to the next one, 50 microliters
17	mean?	17	of DMSO that contains a hundred microgram of talc to
18	A. Untreated.	18	the next one. So they all have the same volume. But
19	Q. Was there only one control for each cell	19	one with without the powder, and one with the
20	type?	20	various concentration of powder.
21	A. One dish, yes.	21	BY MR. HEGARTY:
22	Q. So there could be only one volume of DMSO	22	Q. I gotcha. Would you turn to page 67 of your
23	added per cell line, correct?	23	lab notebook, Exhibit 2? Are you there?
24	MS. O'DELL: Objection to form.	24	A. Yes.
25	THE WITNESS: The question is not	25	Q. You list there your calculations for CA-125,
	Page 444		Page 446
			rage 110
1		_	
	clear really.	1	correct, in the table at the bottom?
2	BY MR. HEGARTY:	2	A. Yes.
2	BY MR. HEGARTY:  Q. Well, you had said you had one control	2	<ul><li>A. Yes.</li><li>Q. What test methods or what testing was done</li></ul>
2 3 4	BY MR. HEGARTY:  Q. Well, you had said you had one control dish for each cell line tested, correct?	2 3 4	<ul><li>A. Yes.</li><li>Q. What test methods or what testing was done to get those levels, get those values?</li></ul>
2 3 4 5	BY MR. HEGARTY:  Q. Well, you had said you had one control dish for each cell line tested, correct?  A. Yes.	2 3 4 5	<ul><li>A. Yes.</li><li>Q. What test methods or what testing was done to get those levels, get those values?</li><li>A. I don't understand the question.</li></ul>
2 3 4 5 6	BY MR. HEGARTY: Q. Well, you had said you had one control dish for each cell line tested, correct? A. Yes. Q. And in that control dish, you would add an	2 3 4 5 6	<ul> <li>A. Yes.</li> <li>Q. What test methods or what testing was done to get those levels, get those values?</li> <li>A. I don't understand the question.</li> <li>Q. Well, what what tests what how do</li> </ul>
2 3 4 5 6 7	BY MR. HEGARTY: Q. Well, you had said you had one control dish for each cell line tested, correct? A. Yes. Q. And in that control dish, you would add an amount of DMSO, correct?	2 3 4 5 6 7	<ul> <li>A. Yes.</li> <li>Q. What test methods or what testing was done to get those levels, get those values?</li> <li>A. I don't understand the question.</li> <li>Q. Well, what what tests what how do you test the the samples for CA-125? What is the</li> </ul>
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2 3 4 5 6 7 8 9 10 11 12	BY MR. HEGARTY:  Q. Well, you had said you had one control dish for each cell line tested, correct?  A. Yes.  Q. And in that control dish, you would add an amount of DMSO, correct?  A. Correct.  Q. So how much DMSO did you add to that one control dish for each of the cell lines tested?  A. Okay.  MS. O'DELL: Object to form.  THE WITNESS: So let me answer this.	2 3 4 5 6 7 8 9 10 11	A. Yes. Q. What test methods or what testing was done to get those levels, get those values? A. I don't understand the question. Q. Well, what what tests what how do you test the the samples for CA-125? What is the what is the process for doing that, that generates these numbers? A. ELISA. Q. And physically how does it how is it done? Do you put it in a machine and it generates the the data?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	BY MR. HEGARTY:  Q. Well, you had said you had one control dish for each cell line tested, correct?  A. Yes.  Q. And in that control dish, you would add an amount of DMSO, correct?  A. Correct.  Q. So how much DMSO did you add to that one control dish for each of the cell lines tested?  A. Okay.  MS. O'DELL: Object to form.  THE WITNESS: So let me answer this.  So we have DMSO alone, and DMSO dissolved in a DMSO talc. So whatever treatment volume we use here, we use the same here. So if we used 50 microliters here to treat the cells from the treated, from the DMSO talc, we used 50 microliters again for DMSO control. Same	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Yes. Q. What test methods or what testing was done to get those levels, get those values? A. I don't understand the question. Q. Well, what what tests what how do you test the the samples for CA-125? What is the what is the process for doing that, that generates these numbers? A. ELISA. Q. And physically how does it how is it done? Do you put it in a machine and it generates the the data? A. Physically you you are provided with a standard curve, I mean CA-125 protein with different concentration, yes, and then you can use the different concentration to create the standard curve, and then you can run the standard curve with your samples as
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	BY MR. HEGARTY:  Q. Well, you had said you had one control dish for each cell line tested, correct?  A. Yes.  Q. And in that control dish, you would add an amount of DMSO, correct?  A. Correct.  Q. So how much DMSO did you add to that one control dish for each of the cell lines tested?  A. Okay.  MS. O'DELL: Object to form.  THE WITNESS: So let me answer this.  So we have DMSO alone, and DMSO dissolved in a DMSO talc. So whatever treatment volume we use here, we use the same here. So if we used 50 microliters here to treat the cells from the treated, from the DMSO talc, we used 50 microliters again for DMSO control. Same volume.  BY MR. HEGARTY:	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Yes. Q. What test methods or what testing was done to get those levels, get those values? A. I don't understand the question. Q. Well, what what tests what how do you test the the samples for CA-125? What is the what is the process for doing that, that generates these numbers? A. ELISA. Q. And physically how does it how is it done? Do you put it in a machine and it generates the the data? A. Physically you you are provided with a standard curve, I mean CA-125 protein with different concentration, yes, and then you can use the different concentration to create the standard curve, and then you can run the standard curve with your samples as indicated by the 96 full plate here, and then ELISA read it, right, and then you get the results.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	BY MR. HEGARTY:  Q. Well, you had said you had one control dish for each cell line tested, correct?  A. Yes.  Q. And in that control dish, you would add an amount of DMSO, correct?  A. Correct.  Q. So how much DMSO did you add to that one control dish for each of the cell lines tested?  A. Okay.  MS. O'DELL: Object to form.  THE WITNESS: So let me answer this.  So we have DMSO alone, and DMSO dissolved in a DMSO talc. So whatever treatment volume we use here, we use the same here. So if we used 50 microliters here to treat the cells from the treated, from the DMSO talc, we used 50 microliters again for DMSO control. Same volume.  BY MR. HEGARTY:  Q. So you had so you had three control	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Yes. Q. What test methods or what testing was done to get those levels, get those values? A. I don't understand the question. Q. Well, what what tests what how do you test the the samples for CA-125? What is the what is the process for doing that, that generates these numbers? A. ELISA. Q. And physically how does it how is it done? Do you put it in a machine and it generates the the data? A. Physically you you are provided with a standard curve, I mean CA-125 protein with different concentration, yes, and then you can use the different concentration to create the standard curve, and then you can run the standard curve with your samples as indicated by the 96 full plate here, and then ELISA read it, right, and then you get the results. Q. What is the date of the plate setup for this
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	BY MR. HEGARTY:  Q. Well, you had said you had one control dish for each cell line tested, correct?  A. Yes.  Q. And in that control dish, you would add an amount of DMSO, correct?  A. Correct.  Q. So how much DMSO did you add to that one control dish for each of the cell lines tested?  A. Okay.  MS. O'DELL: Object to form.  THE WITNESS: So let me answer this.  So we have DMSO alone, and DMSO dissolved in a DMSO talc. So whatever treatment volume we use here, we use the same here. So if we used 50 microliters here to treat the cells from the treated, from the DMSO talc, we used 50 microliters again for DMSO control. Same volume.  BY MR. HEGARTY:  Q. So you had so you had three control dishes so that you would have to control dish for each	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yes. Q. What test methods or what testing was done to get those levels, get those values? A. I don't understand the question. Q. Well, what what tests what how do you test the the samples for CA-125? What is the what is the process for doing that, that generates these numbers? A. ELISA. Q. And physically how does it how is it done? Do you put it in a machine and it generates the the data? A. Physically you you are provided with a standard curve, I mean CA-125 protein with different concentration, yes, and then you can use the different concentration to create the standard curve, and then you can run the standard curve with your samples as indicated by the 96 full plate here, and then ELISA read it, right, and then you get the results. Q. What is the date of the plate setup for this test? It says plate setup, but I don't see a date for it. A. It's it is yes, I see the date. It's
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	BY MR. HEGARTY:  Q. Well, you had said you had one control dish for each cell line tested, correct?  A. Yes.  Q. And in that control dish, you would add an amount of DMSO, correct?  A. Correct.  Q. So how much DMSO did you add to that one control dish for each of the cell lines tested?  A. Okay.  MS. O'DELL: Object to form.  THE WITNESS: So let me answer this.  So we have DMSO alone, and DMSO dissolved in a DMSO talc. So whatever treatment volume we use here, we use the same here. So if we used 50 microliters here to treat the cells from the treated, from the DMSO talc, we used 50 microliters again for DMSO control. Same volume.  BY MR. HEGARTY:  Q. So you had so you had three control dishes so that you would have to control dish for each dose of talc?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. Yes. Q. What test methods or what testing was done to get those levels, get those values? A. I don't understand the question. Q. Well, what what tests what how do you test the the samples for CA-125? What is the what is the process for doing that, that generates these numbers? A. ELISA. Q. And physically how does it how is it done? Do you put it in a machine and it generates the the data? A. Physically you you are provided with a standard curve, I mean CA-125 protein with different concentration, yes, and then you can use the different concentration to create the standard curve, and then you can run the standard curve with your samples as indicated by the 96 full plate here, and then ELISA read it, right, and then you get the results. Q. What is the date of the plate setup for this test? It says plate setup, but I don't see a date for it.

#### Page 449 Page 447 1 Q. That is the date of the plate setup? 1 dose only. 2 A. If it says inside here, yes. 2 BY MR. HEGARTY: 3 3 Q. What was the date that the test results were Q. For how long of exposure? 4 generated? When were the samples tested? Is there a 4 A. That's -- here it says 48 hours, but it is 5 5 date next to --72 hours. 6 A. No, no. They're all together. You can't 6 Q. Where then is the data in your notebook 7 run standard and stop and leave and go home. They're 7 showing treatment of the cells for the CA-125 test, and 8 all run at the same time because you need to compare to 8 then 72 hours later you're running the test results? 9 a standard. 9 A. I can't see it here. I cannot see it in my 10 O. When were the cells treated for the CA-125 10 notebook. 11 11 test? Q. Okay. Let's --12 A. When were the cells treated for -- this 12 A. But I have some cells from January 10, 13 is -- I think it's in the beginning of the ELISA. 13 CA-125 ELISA with the trial, for the trial from --14 So -- yes. So this -- I don't know when we treated 14 Q. But for 72 hours, they would have been 15 this. It must be the same date. I don't have a note 15 treated 72 hours before January 17th, correct? 16 16 A. Yes, 72 hours it says. of that. 17 Q. Well, you report in your manuscript --17 Q. What page are you pointing to? A. This is page 13. This is the trial A. January 17. 18 18 19 Q. -- that you tested for CA-125 up to 19 experiment that we did. 20 72 hours --20 Q. Right now I'm talking about the -- not the 21 A. Yes. 21 trial experiment, the manuscript experiment. 2.2 Q. -- of exposure, correct? 22 A. They would have been done the same date 23 23 almost. This is January 10, that's January 17. So we A. Yes. 24 Where is that reflected in your notebook? 24 were treating the cells probably at the same time. I'm 25 25 not sure. It's not written here. It's here. Page 448 Page 450 MS. O'DELL: What page are you 1 Q. You do agree that you would have had to 1 2 2 referring to? treat the cells three days before January 17th, 3 BY MR. HEGARTY: 3 correct? 4 Q. Yeah, what page are you referring to? 4 A. Correct. So this is why the trial 5 A. January -- 63. Where is the cell treatment 5 experiment started on January 10th. 6 6 for this. Yeah. I only have the date for the assay on O. You can't find in the notebook on --7 7 here. But the treatment, these are the 12, 12 plus notebook Exhibit Number 2, treatment for the CA-125 8 100. Let me check the manuscript which one we did 8 test on January 14th, 2018? 9 9 here. CA-125. Let's see. So for this one, we used a MS. O'DELL: Object to the form. 10 hundred microgram per mil, one dose to do the assay. 10 THE WITNESS: I only -- I found 11 Q. And in your manuscript you say activity 11 the trial experiment that I did, which is dated assay was utilized to determine apoptosis of all cell 12 12 January 10. 13 13 lines -- I'm sorry, that's apoptosis. Let me back up BY MR. HEGARTY: 14 to --14 Q. That couldn't be the same cell line, right? 15 A. If you go to here, you can see the -- the 15 A. I'm not sure. 16 legend. If you go to legend for CA-125, and it tells 16 Q. If you go to your -- your page 50 in your 17 you that we used a hundred micrograms per mil dose, and 17 notebook, please. 18 in this time, we only did one dose, the highest dose. 18 A. Okay. That's 33? 19 MS. O'DELL: What -- what figure are 19 Q. I'm sorry. Go to page 49 of your notebook. 20 you referring to? 20 A. 49, which is GPX. 21 THE WITNESS: It is figure four 21 Q. Correct. If you would look at sample ID 22 legend. It says increase CA-125, and this one is 22 358. Do you see that sample ID to the left? 23 about treatment, and these are the cell lines that we 23 A. 358, macrophages, 20 micrograms per mil. 24 used, they are here, and the table, and this is 24 Q. And if you go over to the normalized data to 25 25 referred to a hundred micrograms per mil. It's one the far right, do you see that normalized data of 2.17,

	Page 451		Page 453
1	2.46 and 2.39?	1	A. Yes.
2	A. Yes.	2	Q. You go over and you see the 9.98 number, the
3	Q. And do you see the average of 2.47?	3	11.63 number and 10.50 number?
4	A. Yes.	4	A. Yes.
5	Q. How can you have an average of 2.47 when	5	Q. When I took added those numbers and
6	none of the normalized data is above 2.46?	6	divided by three, I got 10.7 instead of 11.07. Do you
7	A. 2 point hold on one second. 2.17, 2.46,	7	know why that is the case?
8	2 point actually, it would be lower. That's even	8	MS. O'DELL: Object to the form.
9	better.	9	THE WITNESS: What did you get?
10	Q. That's not my question, Doctor.	10	BY MR. HEGARTY:
11	A. I know. I understand. I'm just looking why	11	Q. Well, if you add those three numbers and you
12	we probably this happened. The answer is, probably	12	divide by three, you get 10.7, not 11.07, and my
13	it's a typo, it's a mistake. But if you add it, then	13	question to you is, do you know why that's the case?
14	you will get a lower value.	14	A. Can I add them?
15	Q. Understood. But if you when I did the	15	Q. Yes.
16	average, I came up with 2.34.	16	MS. O'DELL: Do you need a piece of
17	A. Yes.	17	paper?
18	Q. Why is this reporting 2.47?	18	BY MR. HEGARTY:
19	A. These are formulas already linked to the	19	Q. Do you have a
20	each section, so maybe sometimes by mistake you you	20	A. Yeah.
21	link to the wrong cell number.	21	Q phone?
22	Q. Can you explain why the number is wrong?	22	A. Yeah. 9.98 plus 10.7. This is 11.07. I
23	MS. O'DELL: Object to the form.	23	don't know. It's a very small difference, nothing
24	THE WITNESS: I can't explain. Just	24	significant.
25	a mistake.	25	Q. Would you turn over to page 105 of your
	Page 452		Page 454
1	BY MR. HEGARTY:	1	notebook, please?
2	Q. If you go over to	2	A. 105.
	Q. If you go over to		11. 105.
3	A. If the for the record, if they were	3	Q. In the chart on that page, you list the
		3 4	Q. In the chart on that page, you list the
3	A. If the for the record, if they were		Q. In the chart on that page, you list the
3 4	A. If the for the record, if they were averaged correctly, you will get the lower number	4	Q. In the chart on that page, you list the results for the HOSEpic control and for talc, correct?
3 4 5	<ul> <li>A. If the for the record, if they were averaged correctly, you will get the lower number</li> <li>Q. If you would</li> <li>A which is which is better.</li> <li>Q. When you say better, better in what way?</li> </ul>	4 5	Q. In the chart on that page, you list the results for the HOSEpic control and for tale, correct?  MS. O'DELL: What page are you on?
3 4 5 6	<ul> <li>A. If the for the record, if they were averaged correctly, you will get the lower number</li> <li>Q. If you would</li> <li>A which is which is better.</li> </ul>	4 5 6	Q. In the chart on that page, you list the results for the HOSEpic control and for talc, correct?  MS. O'DELL: What page are you on?  BY MR. HEGARTY:  Q. That cell line?  A. H
3 4 5 6 7	<ul> <li>A. If the for the record, if they were averaged correctly, you will get the lower number</li> <li>Q. If you would</li> <li>A which is which is better.</li> <li>Q. When you say better, better in what way?</li> </ul>	4 5 6 7	Q. In the chart on that page, you list the results for the HOSEpic control and for talc, correct?  MS. O'DELL: What page are you on?  BY MR. HEGARTY:  Q. That cell line?
3 4 5 6 7 8	<ul> <li>A. If the for the record, if they were averaged correctly, you will get the lower number</li> <li>Q. If you would</li> <li>A which is which is better.</li> <li>Q. When you say better, better in what way?</li> <li>A. I mean it's more consistent with the with</li> </ul>	4 5 6 7 8	Q. In the chart on that page, you list the results for the HOSEpic control and for talc, correct?  MS. O'DELL: What page are you on?  BY MR. HEGARTY:  Q. That cell line?  A. H  Q. H-O-S-E  A. HOSEpic, yeah.
3 4 5 6 7 8 9 10	<ul> <li>A. If the for the record, if they were averaged correctly, you will get the lower number Q. If you would</li> <li>A which is which is better.</li> <li>Q. When you say better, better in what way?</li> <li>A. I mean it's more consistent with the with the data.</li> <li>Q. Go over to page 61, please.</li> <li>A. ELISA?</li> </ul>	4 5 6 7 8 9 10	Q. In the chart on that page, you list the results for the HOSEpic control and for talc, correct?  MS. O'DELL: What page are you on?  BY MR. HEGARTY:  Q. That cell line?  A. H  Q. H-O-S-E  A. HOSEpic, yeah.  Q. HOSEpic?
3 4 5 6 7 8 9 10 11	<ul> <li>A. If the for the record, if they were averaged correctly, you will get the lower number Q. If you would</li> <li>A which is which is better.</li> <li>Q. When you say better, better in what way?</li> <li>A. I mean it's more consistent with the with the data.</li> <li>Q. Go over to page 61, please.</li> <li>A. ELISA?</li> <li>Q. It's just a table of data.</li> </ul>	4 5 6 7 8 9 10 11	Q. In the chart on that page, you list the results for the HOSEpic control and for talc, correct?  MS. O'DELL: What page are you on?  BY MR. HEGARTY:  Q. That cell line?  A. H  Q. H-O-S-E  A. HOSEpic, yeah.  Q. HOSEpic?  A. Um-hum.
3 4 5 6 7 8 9 10 11 12	<ul> <li>A. If the for the record, if they were averaged correctly, you will get the lower number Q. If you would</li> <li>A which is which is better.</li> <li>Q. When you say better, better in what way?</li> <li>A. I mean it's more consistent with the with the data.</li> <li>Q. Go over to page 61, please.</li> <li>A. ELISA?</li> <li>Q. It's just a table of data.</li> <li>A. This? 61? Yes.</li> </ul>	4 5 6 7 8 9 10 11 12 13	Q. In the chart on that page, you list the results for the HOSEpic control and for talc, correct?  MS. O'DELL: What page are you on?  BY MR. HEGARTY:  Q. That cell line?  A. H  Q. H-O-S-E  A. HOSEpic, yeah.  Q. HOSEpic?  A. Um-hum.  Q. For the control and for talc, the results
3 4 5 6 7 8 9 10 11 12 13	A. If the for the record, if they were averaged correctly, you will get the lower number Q. If you would A which is which is better. Q. When you say better, better in what way? A. I mean it's more consistent with the with the data.  Q. Go over to page 61, please. A. ELISA? Q. It's just a table of data. A. This? 61? Yes. Q. Okay.	4 5 6 7 8 9 10 11 12 13	Q. In the chart on that page, you list the results for the HOSEpic control and for talc, correct?  MS. O'DELL: What page are you on?  BY MR. HEGARTY:  Q. That cell line?  A. H  Q. H-O-S-E  A. HOSEpic, yeah.  Q. HOSEpic?  A. Um-hum.  Q. For the control and for talc, the results are listed, correct?
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. If the for the record, if they were averaged correctly, you will get the lower number Q. If you would A which is which is better. Q. When you say better, better in what way? A. I mean it's more consistent with the with the data. Q. Go over to page 61, please. A. ELISA? Q. It's just a table of data. A. This? 61? Yes. Q. Okay. A. Let me see what's this first. Q. It should be a table dated January 11, 2018. A. This is for catalase. Q. Okay.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. In the chart on that page, you list the results for the HOSEpic control and for talc, correct?  MS. O'DELL: What page are you on?  BY MR. HEGARTY: Q. That cell line? A. H Q. H-O-S-E A. HOSEpic, yeah. Q. HOSEpic? A. Um-hum. Q. For the control and for talc, the results are listed, correct?  MS. O'DELL: I'm sorry, what page are you on?  THE WITNESS: I don't understand what you're saying.
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. If the for the record, if they were averaged correctly, you will get the lower number Q. If you would A which is which is better. Q. When you say better, better in what way? A. I mean it's more consistent with the with the data. Q. Go over to page 61, please. A. ELISA? Q. It's just a table of data. A. This? 61? Yes. Q. Okay. A. Let me see what's this first. Q. It should be a table dated January 11, 2018. A. This is for catalase. Q. Okay. A. January 11? Q. Yes.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. In the chart on that page, you list the results for the HOSEpic control and for talc, correct?  MS. O'DELL: What page are you on?  BY MR. HEGARTY:  Q. That cell line?  A. H  Q. H-O-S-E  A. HOSEpic, yeah.  Q. HOSEpic?  A. Um-hum.  Q. For the control and for talc, the results are listed, correct?  MS. O'DELL: I'm sorry, what page are you on?  THE WITNESS: I don't understand what you're saying.  BY MR. HEGARTY:  Q. Well, you list results for the cell line
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. If the for the record, if they were averaged correctly, you will get the lower number Q. If you would A which is which is better. Q. When you say better, better in what way? A. I mean it's more consistent with the with the data. Q. Go over to page 61, please. A. ELISA? Q. It's just a table of data. A. This? 61? Yes. Q. Okay. A. Let me see what's this first. Q. It should be a table dated January 11, 2018. A. This is for catalase. Q. Okay. A. January 11? Q. Yes. A. Yes, I got that.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. In the chart on that page, you list the results for the HOSEpic control and for talc, correct?  MS. O'DELL: What page are you on?  BY MR. HEGARTY:  Q. That cell line?  A. H  Q. H-O-S-E  A. HOSEpic, yeah.  Q. HOSEpic?  A. Um-hum.  Q. For the control and for talc, the results are listed, correct?  MS. O'DELL: I'm sorry, what page are you on?  THE WITNESS: I don't understand what you're saying.  BY MR. HEGARTY:  Q. Well, you list results for the cell line HOSEpic control and talc, correct?
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. If the for the record, if they were averaged correctly, you will get the lower number Q. If you would A which is which is better. Q. When you say better, better in what way? A. I mean it's more consistent with the with the data. Q. Go over to page 61, please. A. ELISA? Q. It's just a table of data. A. This? 61? Yes. Q. Okay. A. Let me see what's this first. Q. It should be a table dated January 11, 2018. A. This is for catalase. Q. Okay. A. January 11? Q. Yes. A. Yes, I got that. Q. If you look at the very first line over	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. In the chart on that page, you list the results for the HOSEpic control and for talc, correct?  MS. O'DELL: What page are you on?  BY MR. HEGARTY:  Q. That cell line?  A. H  Q. H-O-S-E  A. HOSEpic, yeah.  Q. HOSEpic?  A. Um-hum.  Q. For the control and for talc, the results are listed, correct?  MS. O'DELL: I'm sorry, what page are you on?  THE WITNESS: I don't understand what you're saying.  BY MR. HEGARTY:  Q. Well, you list results for the cell line HOSEpic control and talc, correct?  A. Correct.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. If the for the record, if they were averaged correctly, you will get the lower number Q. If you would A which is which is better. Q. When you say better, better in what way? A. I mean it's more consistent with the with the data. Q. Go over to page 61, please. A. ELISA? Q. It's just a table of data. A. This? 61? Yes. Q. Okay. A. Let me see what's this first. Q. It should be a table dated January 11, 2018. A. This is for catalase. Q. Okay. A. January 11? Q. Yes. A. Yes, I got that. Q. If you look at the very first line over A2780 dash C, do you see that line?	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. In the chart on that page, you list the results for the HOSEpic control and for talc, correct?  MS. O'DELL: What page are you on?  BY MR. HEGARTY:  Q. That cell line?  A. H  Q. H-O-S-E  A. HOSEpic, yeah.  Q. HOSEpic?  A. Um-hum.  Q. For the control and for talc, the results are listed, correct?  MS. O'DELL: I'm sorry, what page are you on?  THE WITNESS: I don't understand what you're saying.  BY MR. HEGARTY:  Q. Well, you list results for the cell line HOSEpic control and talc, correct?  A. Correct.  MS. O'DELL: You're on page 105?
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. If the for the record, if they were averaged correctly, you will get the lower number Q. If you would A which is which is better. Q. When you say better, better in what way? A. I mean it's more consistent with the with the data. Q. Go over to page 61, please. A. ELISA? Q. It's just a table of data. A. This? 61? Yes. Q. Okay. A. Let me see what's this first. Q. It should be a table dated January 11, 2018. A. This is for catalase. Q. Okay. A. January 11? Q. Yes. A. Yes, I got that. Q. If you look at the very first line over	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. In the chart on that page, you list the results for the HOSEpic control and for talc, correct?  MS. O'DELL: What page are you on?  BY MR. HEGARTY:  Q. That cell line?  A. H  Q. H-O-S-E  A. HOSEpic, yeah.  Q. HOSEpic?  A. Um-hum.  Q. For the control and for talc, the results are listed, correct?  MS. O'DELL: I'm sorry, what page are you on?  THE WITNESS: I don't understand what you're saying.  BY MR. HEGARTY:  Q. Well, you list results for the cell line HOSEpic control and talc, correct?  A. Correct.

	Page 455		Page 457
1	'cause I don't think I'm on the same page. This is	1	Q. Well, 9-6.
2	what I have for what page are the Bates number,	2	A. 9-6?
3	Mark, just to make sure?	3	Q. Do you see where it says, the first line
4	MR. HEGARTY: 85. He's working off	4	after 9-6, after 24 hours treatment?
5	the other number.	5	A. Um-hum.
6	MS. O'DELL: I know that. But I'm	6	Q. Yes?
7	just trying to make sure	7	A. Yes.
8	THE WITNESS: 105. Thank you for	8	Q. And turn to the next page, the raw data is
9	your help.	9	reported on 9-6-2018; is that correct?
10	BY MR. HEGARTY:	10	A. Yes.
11	Q. In your manuscript, you don't report the	11	Q. In your manuscript, though, you report cell
12	results for the HOSEpic cell line. Why is that?	12	proliferation data for 72 hours. So here you're
13	A. Because this is a normal ovarian, epithelial	13	seeding cells on 9-4, and then you're taking tests
14	ovarian, and we already did another normal epithelial	14	after 24 hours. Where does the 72 hours come from?
15	ovarian, so and we had the same results. The	15	Where did the 72 hours come from?
16	HOSEpic is normal.	16	A. So 9-4, treat cells with talc. 9-5, 9-6 is
17	Q. Would you go a couple pages over to 107,	17	24. Oh, yeah. So this one this one is 24 hours
18	please?	18	only. What does it say here?
19	A. MTT?	19	Q. Well
20	Q. MTT Cell Proliferation.	20	A. I want to see it.
21	A. Um-hum.	21	Q. Yes. It's over on if you look at
22	Q. Do you see that page?	22	page six, you report cell proliferation and apoptosis
23	A. I do.	23	using MTT cell proliferation assays with talc,
24	Q. In the table above the graph, it says	24	100 micrograms per milliliter for 72 hours.
25	Cytotoxicity Percent. Do you see that table?	25	A. Yes, this is this is 24 hours.
	Page 456		Page 458
1			
	A. Yes.	1	Q. But you that same table I'm sorry, the
2	Q. Then in the graph below it says, cell	1 2	same graph you have there is the same graph you have in
			same graph you have there is the same graph you have in your manuscript.
2	Q. Then in the graph below it says, cell proliferation above baseline percentage. Why does the table report cytotoxicity and the graph report cell	2	same graph you have there is the same graph you have in
2	Q. Then in the graph below it says, cell proliferation above baseline percentage. Why does the	2 3	same graph you have there is the same graph you have in your manuscript.
2 3 4	Q. Then in the graph below it says, cell proliferation above baseline percentage. Why does the table report cytotoxicity and the graph report cell	2 3 4	same graph you have there is the same graph you have in your manuscript.  A. Yes.
2 3 4 5	Q. Then in the graph below it says, cell proliferation above baseline percentage. Why does the table report cytotoxicity and the graph report cell proliferation above baseline?	2 3 4 5	same graph you have there is the same graph you have in your manuscript.  A. Yes.  Q. So where is this data for 72 hours?
2 3 4 5 6	<ul> <li>Q. Then in the graph below it says, cell proliferation above baseline percentage. Why does the table report cytotoxicity and the graph report cell proliferation above baseline?</li> <li>A. I need to explain.</li> <li>Q. Okay.</li> <li>A. Okay. So MTT measures cell proliferation</li> </ul>	2 3 4 5 6	same graph you have there is the same graph you have in your manuscript.  A. Yes. Q. So where is this data for 72 hours? A. There is no data. This is the data. It's
2 3 4 5 6 7 8	<ul> <li>Q. Then in the graph below it says, cell proliferation above baseline percentage. Why does the table report cytotoxicity and the graph report cell proliferation above baseline?</li> <li>A. I need to explain.</li> <li>Q. Okay.</li> <li>A. Okay. So MTT measures cell proliferation that is proportional to cell death. So the cells that</li> </ul>	2 3 4 5 6 7 8	same graph you have there is the same graph you have in your manuscript.  A. Yes. Q. So where is this data for 72 hours? A. There is no data. This is the data. It's 24 hours. Q. So why did you report in your manuscript that it's for 72 hours?
2 3 4 5 6 7 8 9	Q. Then in the graph below it says, cell proliferation above baseline percentage. Why does the table report cytotoxicity and the graph report cell proliferation above baseline?  A. I need to explain. Q. Okay. A. Okay. So MTT measures cell proliferation that is proportional to cell death. So the cells that proliferate, there are cells that die. So you can here	2 3 4 5 6 7 8 9	same graph you have there is the same graph you have in your manuscript.  A. Yes. Q. So where is this data for 72 hours? A. There is no data. This is the data. It's 24 hours. Q. So why did you report in your manuscript that it's for 72 hours? A. It's a typo, a mistake. Because we've
2 3 4 5 6 7 8 9 10	Q. Then in the graph below it says, cell proliferation above baseline percentage. Why does the table report cytotoxicity and the graph report cell proliferation above baseline?  A. I need to explain. Q. Okay. A. Okay. So MTT measures cell proliferation that is proportional to cell death. So the cells that proliferate, there are cells that die. So you can here the percentage of cell proliferation above the baseline	2 3 4 5 6 7 8 9 10	same graph you have there is the same graph you have in your manuscript.  A. Yes. Q. So where is this data for 72 hours? A. There is no data. This is the data. It's 24 hours. Q. So why did you report in your manuscript that it's for 72 hours? A. It's a typo, a mistake. Because we've done everything else is 72 hours, that's why.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. Then in the graph below it says, cell proliferation above baseline percentage. Why does the table report cytotoxicity and the graph report cell proliferation above baseline?  A. I need to explain. Q. Okay. A. Okay. So MTT measures cell proliferation that is proportional to cell death. So the cells that proliferate, there are cells that die. So you can here the percentage of cell proliferation above the baseline is the cells that proliferated, here is the toxicity, the cells that died. So it's two different ways of interpreting it.  Q. Go back one page to 106, please. A. 106.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	same graph you have there is the same graph you have in your manuscript.  A. Yes. Q. So where is this data for 72 hours? A. There is no data. This is the data. It's 24 hours. Q. So why did you report in your manuscript that it's for 72 hours? A. It's a typo, a mistake. Because we've done everything else is 72 hours, that's why. Q. So it's your testimony that in your manuscripts where you report cell proliferation from 100 micrograms per milliliter of talc for 72 hours, that should be 24 hours? A. What we did here is clearly explained in the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. Then in the graph below it says, cell proliferation above baseline percentage. Why does the table report cytotoxicity and the graph report cell proliferation above baseline?  A. I need to explain. Q. Okay. A. Okay. So MTT measures cell proliferation that is proportional to cell death. So the cells that proliferate, there are cells that die. So you can here the percentage of cell proliferation above the baseline is the cells that proliferated, here is the toxicity, the cells that died. So it's two different ways of interpreting it.  Q. Go back one page to 106, please. A. 106. Q. At the top it says, MTT Cell Proliferation	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	same graph you have there is the same graph you have in your manuscript.  A. Yes. Q. So where is this data for 72 hours? A. There is no data. This is the data. It's 24 hours. Q. So why did you report in your manuscript that it's for 72 hours? A. It's a typo, a mistake. Because we've done everything else is 72 hours, that's why. Q. So it's your testimony that in your manuscripts where you report cell proliferation from 100 micrograms per milliliter of talc for 72 hours, that should be 24 hours? A. What we did here is clearly explained in the notebook. It says when we seeded the cells and when we
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Then in the graph below it says, cell proliferation above baseline percentage. Why does the table report cytotoxicity and the graph report cell proliferation above baseline?  A. I need to explain. Q. Okay. A. Okay. So MTT measures cell proliferation that is proportional to cell death. So the cells that proliferate, there are cells that die. So you can here the percentage of cell proliferation above the baseline is the cells that proliferated, here is the toxicity, the cells that died. So it's two different ways of interpreting it.  Q. Go back one page to 106, please. A. 106. Q. At the top it says, MTT Cell Proliferation Assay, correct?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	same graph you have there is the same graph you have in your manuscript.  A. Yes. Q. So where is this data for 72 hours? A. There is no data. This is the data. It's 24 hours. Q. So why did you report in your manuscript that it's for 72 hours? A. It's a typo, a mistake. Because we've done everything else is 72 hours, that's why. Q. So it's your testimony that in your manuscripts where you report cell proliferation from 100 micrograms per milliliter of talc for 72 hours, that should be 24 hours? A. What we did here is clearly explained in the notebook. It says when we seeded the cells and when we treated the cells and when we did the assay, and that's
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Then in the graph below it says, cell proliferation above baseline percentage. Why does the table report cytotoxicity and the graph report cell proliferation above baseline?  A. I need to explain. Q. Okay. A. Okay. So MTT measures cell proliferation that is proportional to cell death. So the cells that proliferate, there are cells that die. So you can here the percentage of cell proliferation above the baseline is the cells that proliferated, here is the toxicity, the cells that died. So it's two different ways of interpreting it.  Q. Go back one page to 106, please. A. 106. Q. At the top it says, MTT Cell Proliferation Assay, correct? A. Correct.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	same graph you have there is the same graph you have in your manuscript.  A. Yes. Q. So where is this data for 72 hours? A. There is no data. This is the data. It's 24 hours. Q. So why did you report in your manuscript that it's for 72 hours? A. It's a typo, a mistake. Because we've done everything else is 72 hours, that's why. Q. So it's your testimony that in your manuscripts where you report cell proliferation from 100 micrograms per milliliter of talc for 72 hours, that should be 24 hours? A. What we did here is clearly explained in the notebook. It says when we seeded the cells and when we treated the cells and when we did the assay, and that's 24 hours. It says after 24 hours treatment.
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	Page 459		Page 461
1	Q. Do you intend to correct that mistake,	1	directly, correct?
2	Doctor?	2	A. I don't understand your question.
3	A. Of course. But this this manuscript is	3	Q. Well, it's not a direct measure of cell
4	not rejected.	4	proliferation, is it?
5	Q. I understand that. But the manuscript has	5	MS. O'DELL: Object to form.
6	been accepted with you reporting your data for cell	6	THE WITNESS: I don't understand
7	proliferation for 72 hours, correct?	7	your question.
8	A. This is a normal practice. When we get the	8	BY MR. HEGARTY:
9	proof, we go over the manuscript, we make sure	9	Q. What don't you understand?
10	everything is correct, and we we edit it. It's not	10	A. The question is scientifically wrong.
11	the first time. It's very basic.	11	Q. Why is it scientifically wrong?
12	Q. Did you find this mistake before right now?	12	A. What you mean by direct?
13	A. The 24 hours?	13	Q. Well, it's an indirect measure of cell
14	Q. Yes.	14	proliferation?
15	A. I'm sure we will find it when we read it.	15	A. I'm asking you, what do you mean by you
16	Q. That's not my question. My question is, is	16	said you asked me if it's direct measurement, right?
17	this the first time you're appreciating that you made a	17	Q. You're not
18	mistake in your manuscript, that it should be 24 hours	18	A. I'm asking you, what do you mean by direct?
19	instead of 72 hours?	19	Q. You're not counting the number of cells that
20	A. I answered.	20	are proliferating?
21	Q. What's your answer?	21	A. Of course you are.
22	A. I would have picked it up on the reproof.	22	MS. O'DELL: Excuse me. Object to
23	Q. Had you picked it up before right now?	23	the form.
24	A. I didn't get the reproof yet.	24	BY MR. HEGARTY:
25	Q. But had you picked up the error before right	25	Q. In what way?
	Page 460		Page 462
1	this moment?	_	1.00 COMPT. C
		1	MS. O'DELL: Object to the form.
2	A. You want me to say something? Okay. I	2	MS. O'DELL: Object to the form.  THE WITNESS: Okay. The okay.
2	A. You want me to say something? Okay. I already said, when I get the proof this is a		
		2	THE WITNESS: Okay. The okay.
3	already said, when I get the proof this is a	2	THE WITNESS: Okay. The okay. So the basis of the of the MTT that cells that
3 4	already said, when I get the proof this is a mechanism in our lab. When I read the proof, we sit	2 3 4	THE WITNESS: Okay. The okay.  So the basis of the of the MTT that cells that absorb the dye are the cells that are proliferating,
3 4 5	already said, when I get the proof this is a mechanism in our lab. When I read the proof, we sit down, and we make sure that everything is accurate	2 3 4 5	THE WITNESS: Okay. The okay.  So the basis of the of the MTT that cells that absorb the dye are the cells that are proliferating, and cells that do not absorb the dye, cells are dying,
3 4 5 6	already said, when I get the proof this is a mechanism in our lab. When I read the proof, we sit down, and we make sure that everything is accurate according to our notebook, what we did, and then we	2 3 4 5 6	THE WITNESS: Okay. The okay.  So the basis of the of the MTT that cells that absorb the dye are the cells that are proliferating, and cells that do not absorb the dye, cells are dying, so you can take that, it's a direct measure of
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	already said, when I get the proof this is a mechanism in our lab. When I read the proof, we sit down, and we make sure that everything is accurate according to our notebook, what we did, and then we have the opportunity to fix it.  Q. Had you A. I have not got the proof yet, so I will look for it, and when it comes, I will fix whatever needs to be fixed.  Q. But were you aware of this mistake before right now?  A. I didn't look specifically for this one.  Q. When you say the proof, you're talking about the proof from the publisher?  A. Yes, the proof.  Q. You don't you don't do that comparison before you send it to the publisher?  MS. O'DELL: Object to the form.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	THE WITNESS: Okay. The okay.  So the basis of the of the MTT that cells that absorb the dye are the cells that are proliferating, and cells that do not absorb the dye, cells are dying, so you can take that, it's a direct measure of proliferation.  BY MR. HEGARTY:  Q. And how do you count the cells?  A. The dye, the ELISA. You do the measurements, you do the quantitation, how much dye was absorbed for cells. So when you say direct, that's one of the best techniques that we have. And by the way, this is very standard technique to measure cell proliferation.  Q. Go over, please, to what would be page 104 of your notebook, Exhibit 2, 104. It should look like this.  A. Yes.  Q. These are the
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	already said, when I get the proof this is a mechanism in our lab. When I read the proof, we sit down, and we make sure that everything is accurate according to our notebook, what we did, and then we have the opportunity to fix it.  Q. Had you A. I have not got the proof yet, so I will look for it, and when it comes, I will fix whatever needs to be fixed.  Q. But were you aware of this mistake before right now?  A. I didn't look specifically for this one.  Q. When you say the proof, you're talking about the proof from the publisher?  A. Yes, the proof.  Q. You don't you don't do that comparison before you send it to the publisher?  MS. O'DELL: Object to the form.  THE WITNESS: We do, we do, but	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	THE WITNESS: Okay. The okay.  So the basis of the of the MTT that cells that absorb the dye are the cells that are proliferating, and cells that do not absorb the dye, cells are dying, so you can take that, it's a direct measure of proliferation.  BY MR. HEGARTY:  Q. And how do you count the cells?  A. The dye, the ELISA. You do the measurements, you do the quantitation, how much dye was absorbed for cells. So when you say direct, that's one of the best techniques that we have. And by the way, this is very standard technique to measure cell proliferation.  Q. Go over, please, to what would be page 104 of your notebook, Exhibit 2, 104. It should look like this.  A. Yes.  Q. These are the  A. SNPs.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	already said, when I get the proof this is a mechanism in our lab. When I read the proof, we sit down, and we make sure that everything is accurate according to our notebook, what we did, and then we have the opportunity to fix it.  Q. Had you A. I have not got the proof yet, so I will look for it, and when it comes, I will fix whatever needs to be fixed.  Q. But were you aware of this mistake before right now?  A. I didn't look specifically for this one.  Q. When you say the proof, you're talking about the proof from the publisher?  A. Yes, the proof.  Q. You don't you don't do that comparison before you send it to the publisher?  MS. O'DELL: Object to the form.  THE WITNESS: We do, we do, but sometimes with too many data, too much information, you	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	THE WITNESS: Okay. The okay.  So the basis of the of the MTT that cells that absorb the dye are the cells that are proliferating, and cells that do not absorb the dye, cells are dying, so you can take that, it's a direct measure of proliferation.  BY MR. HEGARTY:  Q. And how do you count the cells?  A. The dye, the ELISA. You do the measurements, you do the quantitation, how much dye was absorbed for cells. So when you say direct, that's one of the best techniques that we have. And by the way, this is very standard technique to measure cell proliferation.  Q. Go over, please, to what would be page 104 of your notebook, Exhibit 2, 104. It should look like this.  A. Yes.  Q. These are the  A. SNPs.  Q. The talc matter results?

Page 463		Page 465
A. Yes.	1	Q. Have you ever done in any strike that.
		Have you ever done any tests to look for neoplastic
`	3	changes in cells directly?
	4	A. No.
-	5	Q. Have you ever taken results like you
	6	had with your tests and applied them in an invitro
	7	model?
	8	A. I'm sorry?
	9	MS. O'DELL: Object to the form.
A. I don't.	10	THE WITNESS: I'm not clear.
Q. Do you know who generated the data, who at	11	BY MR. HEGARTY:
Core?	12	Q. Have you ever taken results of any testing
A. By name?	13	you've done like this and taken them and applied them
Q. Yes.	14	in an animal model?
A. No. We submit it online. There's a	15	MS. O'DELL: Object to the form.
form that you fill out, and which it goes to	16	THE WITNESS: Can you explain what
them, and you send them the samples. I can't remember	17	"like this" means? Like transformed?
names.	18	BY MR. HEGARTY:
Q. Do you know what the two colored dots	19	Q. Well, the tests that you did for your
represent?	20	manuscript, have you ever done tests like those and
A. I'm not sure, but probably for alleles,	21	applied those in an invivo model?
different alleles.	22	A. What tests?
Q. Well, you have green dots and you have red	23	MS. O'DELL: Object to form.
dots. What do those mean?	24	THE WITNESS: What tests you're
A. Alleles, C versus T, A versus G. I'm not	25	talking about?
Page 464		
	1	BY MR. HEGARTY:
		Q. The tests in your manuscript, the tests in
		your notebook.
-		A. I have done one million tests. Which one?
		Q. Any one. Have you ever applied in any in
		any of your work, have you ever taken any of your work
		and applied it in an invivo model?
	8	MS. O'DELL: Object to the form.
	9	THE WITNESS: Not related to this
	10	project?
	11	BY MR. HEGARTY:
BY MR. HEGARTY:	12	Q. Yes, in any sense.
	13	A. I don't remember. I really didn't
ovarian cells to cancerous cells, correct?	14	understand the question, to be honest with you.
MS. O'DELL: Object to form.	15	MS. O'DELL: Well, don't answer a
THE WITNESS: No. These are	16	question if you don't understand it.
immortalized normal. They do not transform.	17	THE WITNESS: I really did not
BY MR. HEGARTY:	18	understand it.
Q. Well, there are tests are there not tests	19	MS. O'DELL: If you don't
to measure whether normal cells have undergone	20	BY MR. HEGARTY:
-	21	Q. If you can
neoplastic changes?		
	22	MS. O'DELL: If you don't understand
neoplastic changes?  A. Again, the question is not clear, because the normal that we used are immortalized cell lines.		MS. O'DELL: If you don't understand the question, please don't
A. Again, the question is not clear, because	22	
	Q. Who read the charts and recorded the data? A. I need to explain this. Q. Okay. A. So this is done by a Core Facility at Wayne State University. We sent them the DNA from the treated cells, and they run the SNP assay, and they give us the data exactly as you see it here. Q. Do you know how they generate that data? A. I don't. Q. Do you know who generated the data, who at Core? A. By name? Q. Yes. A. No. We submit it online. There's a form that you fill out, and which it goes to them, and you send them the samples. I can't remember names. Q. Do you know what the two colored dots represent? A. I'm not sure, but probably for alleles, different alleles. Q. Well, you have green dots and you have red dots. What do those mean? A. Alleles, C versus T, A versus G. I'm not  Page 464  sure exactly how they Q. None of your tests showed development of neoplastic cells, correct? A. Proliferation does. Q. Are you equating cell proliferation with neoplastic development? A. It's an indirect MS. O'DELL: Object to form. THE WITNESS: It's an indirect proliferation. It is an indirect measure of of the beginning of a transformation. BY MR. HEGARTY:  Q. Well, you showed no transformation of normal ovarian cells to cancerous cells, correct? MS. O'DELL: Object to form. THE WITNESS: No. These are immortalized normal. They do not transform. BY MR. HEGARTY:	Q. Who read the charts and recorded the data? A. I need to explain this. Q. Okay. A. So this is done by a Core Facility at Wayne State University. We sent them the DNA from the treated cells, and they run the SNP assay, and they give us the data exactly as you see it here. Q. Do you know how they generate that data? A. I don't. Q. Do you know who generated the data, who at Core? A. By name? Q. Yes. A. No. We submit it online. There's a form that you fill out, and which it goes to them, and you send them the samples. I can't remember names. Q. Do you know what the two colored dots represent? A. I'm not sure, but probably for alleles, different alleles. Q. Well, you have green dots and you have red dots. What do those mean? A. Alleles, C versus T, A versus G. I'm not  Page 464  sure exactly how they Q. None of your tests showed development of neoplastic cells, correct? A. Proliferation does. Q. Are you equating cell proliferation with neoplastic development? A. It's an indirect MS. O'DELL: Object to form. THE WITNESS: It's an indirect proliferation. It is an indirect measure of of the beginning of a transformation. BY MR. HEGARTY:  Q. Well, you showed no transformation of normal ovarian cells to cancerous cells, correct?  MS. O'DELL: Object to form. THE WITNESS: No. These are immortalized normal. They do not transform.  BY MR. HEGARTY:  18

	Page 467		Page 469
1	each other.	1	ratio.
2	BY MR. HEGARTY:	2	Q. What's the normal ratio for 260 to 280?
3	Q. You can treat cells and then inject those	3	A. Around 2.
4	cells into an animal model, correct?	4	Q. When you say around 2, what is the range?
5	A. What do you mean by animal model?	5	A. 1.7, 1.8, 1.9, 2.
6	Q. Like a rat or a mouse?	6	Q. How about strike that. Many are above
7	A. Why would you do that?	7	that range. You have numbers is at 2.31, 2.25, 2.24.
8	Q. To do an invivo test for your results?	8	Do you see that?
9	A. That's the wrong way to do invivo test.	9	A. I do.
10	Q. How do you do an invivo test?	10	Q. Could that indicate could those values
11	A. You create from invivo from within, not	11	indicate the presence of contaminants?
12	inject the cells.	12	A. No.
13	Q. Okay. Have you ever taken cells that you	13	Q. Why not?
14	created	14	A. This is just indicate the the percentage
15	A. I didn't you don't take cells for invivo.	15	of degradation of RNA. Nothing to do with
16	You create the environment invivo for the animal and	16	contamination. The quality of the RNA and whether
17	watch for the response of the animal.	17	there is DNA in there.
18	Q. Have you ever done that?	18	Q. If you look back at Exhibit 26, that's the
19	A. No.	19	abstract that we marked F dash 098.
20	MR. HEGARTY: Okay. We need to	20	A. Um-hum.
21	change tapes. Let's go off the record.	21	Q. I'm sorry.
22	THE VIDEOGRAPHER: We're going to go	22	MS. O'DELL: Exhibit 26?
23	off the record. The time is now 11:09.	23	BY MR. HEGARTY:
24	(There was a recess taken.)	24	Q. I'm sorry. We're looking at
25	THE VIDEOGRAPHER: We're back on the	25	A. The manuscript?
	Page 468		Page 470
1	record, the time is 11:19.	1	Q. Just a second. We're looking I think I
2	BY MR. HEGARTY:		
	BT MR. HEGHETT.	1 2	
- 3	O Doctor, please turn to page 35 of your lab	2	gave you the SRI previously, the SRI abstract. You have that over there?
3 4	Q. Doctor, please turn to page 35 of your lab	3	have that over there?
4	notebook, Exhibit 2. At the top it should read	3 4	have that over there? A. CA-125?
4 5	notebook, Exhibit 2. At the top it should read RNA Concentration. Is that correct?	3 4 5	have that over there?  A. CA-125?  Q. Yes. What's that marked as?
4 5 6	notebook, Exhibit 2. At the top it should read RNA Concentration. Is that correct?  A. Correct.	3 4	have that over there?  A. CA-125?  Q. Yes. What's that marked as?  A. CA-125, that's 25.
4 5 6 7	notebook, Exhibit 2. At the top it should read RNA Concentration. Is that correct?  A. Correct. Q. Yes?	3 4 5 6	have that over there?  A. CA-125? Q. Yes. What's that marked as? A. CA-125, that's 25. Q. Okay. If you look at Number 25, you report
4 5 6	notebook, Exhibit 2. At the top it should read RNA Concentration. Is that correct?  A. Correct. Q. Yes? A. Yes.	3 4 5 6 7	have that over there?  A. CA-125?  Q. Yes. What's that marked as?  A. CA-125, that's 25.  Q. Okay. If you look at Number 25, you report there in the Method section that you treated for
4 5 6 7 8	notebook, Exhibit 2. At the top it should read RNA Concentration. Is that correct?  A. Correct. Q. Yes? A. Yes. Q. If you look over to the right-hand column	3 4 5 6 7 8	have that over there?  A. CA-125? Q. Yes. What's that marked as? A. CA-125, that's 25. Q. Okay. If you look at Number 25, you report
4 5 6 7 8 9	notebook, Exhibit 2. At the top it should read RNA Concentration. Is that correct?  A. Correct. Q. Yes? A. Yes.	3 4 5 6 7 8 9	have that over there?  A. CA-125?  Q. Yes. What's that marked as?  A. CA-125, that's 25.  Q. Okay. If you look at Number 25, you report there in the Method section that you treated for purposes of your CA-125 cells with a thousand
4 5 6 7 8 9	notebook, Exhibit 2. At the top it should read RNA Concentration. Is that correct?  A. Correct. Q. Yes? A. Yes. Q. If you look over to the right-hand column where it lists at the top 260 slash 230, do you see	3 4 5 6 7 8 9	have that over there?  A. CA-125?  Q. Yes. What's that marked as?  A. CA-125, that's 25.  Q. Okay. If you look at Number 25, you report there in the Method section that you treated for purposes of your CA-125 cells with a thousand micrograms per milliliter of talc for 72 hours; is that correct?
4 5 6 7 8 9 10	notebook, Exhibit 2. At the top it should read RNA Concentration. Is that correct?  A. Correct. Q. Yes? A. Yes. Q. If you look over to the right-hand column where it lists at the top 260 slash 230, do you see that? A. The ratio? Yes.	3 4 5 6 7 8 9 10	have that over there?  A. CA-125?  Q. Yes. What's that marked as?  A. CA-125, that's 25.  Q. Okay. If you look at Number 25, you report there in the Method section that you treated for purposes of your CA-125 cells with a thousand micrograms per milliliter of talc for 72 hours; is that correct?  MS. O'DELL: Give me just a minute,
4 5 6 7 8 9 10 11	notebook, Exhibit 2. At the top it should read RNA Concentration. Is that correct?  A. Correct. Q. Yes? A. Yes. Q. If you look over to the right-hand column where it lists at the top 260 slash 230, do you see that? A. The ratio? Yes. Q. Yes, the ratio. The normal ranges for the	3 4 5 6 7 8 9 10 11	have that over there?  A. CA-125?  Q. Yes. What's that marked as?  A. CA-125, that's 25.  Q. Okay. If you look at Number 25, you report there in the Method section that you treated for purposes of your CA-125 cells with a thousand micrograms per milliliter of talc for 72 hours; is that correct?
4 5 6 7 8 9 10 11 12 13	notebook, Exhibit 2. At the top it should read RNA Concentration. Is that correct?  A. Correct. Q. Yes? A. Yes. Q. If you look over to the right-hand column where it lists at the top 260 slash 230, do you see that? A. The ratio? Yes.	3 4 5 6 7 8 9 10 11 12	have that over there?  A. CA-125?  Q. Yes. What's that marked as?  A. CA-125, that's 25.  Q. Okay. If you look at Number 25, you report there in the Method section that you treated for purposes of your CA-125 cells with a thousand micrograms per milliliter of talc for 72 hours; is that correct?  MS. O'DELL: Give me just a minute, because you didn't give me a copy of that exhibit, so I
4 5 6 7 8 9 10 11 12 13 14	notebook, Exhibit 2. At the top it should read RNA Concentration. Is that correct?  A. Correct. Q. Yes? A. Yes. Q. If you look over to the right-hand column where it lists at the top 260 slash 230, do you see that?  A. The ratio? Yes. Q. Yes, the ratio. The normal ranges for the 260 to 230 ratio is 2.0 to 2.2, correct?	3 4 5 6 7 8 9 10 11 12 13	have that over there?  A. CA-125?  Q. Yes. What's that marked as?  A. CA-125, that's 25.  Q. Okay. If you look at Number 25, you report there in the Method section that you treated for purposes of your CA-125 cells with a thousand micrograms per milliliter of talc for 72 hours; is that correct?  MS. O'DELL: Give me just a minute, because you didn't give me a copy of that exhibit, so I need to pull it up. Would you repeat the question,
4 5 6 7 8 9 10 11 12 13 14 15	notebook, Exhibit 2. At the top it should read RNA Concentration. Is that correct?  A. Correct. Q. Yes? A. Yes. Q. If you look over to the right-hand column where it lists at the top 260 slash 230, do you see that? A. The ratio? Yes. Q. Yes, the ratio. The normal ranges for the 260 to 230 ratio is 2.0 to 2.2, correct? A. Not correct. Q. What is the normal ratio?	3 4 5 6 7 8 9 10 11 12 13 14 15	have that over there?  A. CA-125?  Q. Yes. What's that marked as?  A. CA-125, that's 25.  Q. Okay. If you look at Number 25, you report there in the Method section that you treated for purposes of your CA-125 cells with a thousand micrograms per milliliter of talc for 72 hours; is that correct?  MS. O'DELL: Give me just a minute, because you didn't give me a copy of that exhibit, so I need to pull it up. Would you repeat the question, please?
4 5 6 7 8 9 10 11 12 13 14 15 16	notebook, Exhibit 2. At the top it should read RNA Concentration. Is that correct?  A. Correct. Q. Yes? A. Yes. Q. If you look over to the right-hand column where it lists at the top 260 slash 230, do you see that?  A. The ratio? Yes. Q. Yes, the ratio. The normal ranges for the 260 to 230 ratio is 2.0 to 2.2, correct?  A. Not correct. Q. What is the normal ratio?	3 4 5 6 7 8 9 10 11 12 13 14 15	have that over there?  A. CA-125?  Q. Yes. What's that marked as?  A. CA-125, that's 25.  Q. Okay. If you look at Number 25, you report there in the Method section that you treated for purposes of your CA-125 cells with a thousand micrograms per milliliter of talc for 72 hours; is that correct?  MS. O'DELL: Give me just a minute, because you didn't give me a copy of that exhibit, so I need to pull it up. Would you repeat the question, please?  BY MR. HEGARTY:
4 5 6 7 8 9 10 11 12 13 14 15 16 17	notebook, Exhibit 2. At the top it should read RNA Concentration. Is that correct?  A. Correct. Q. Yes? A. Yes. Q. If you look over to the right-hand column where it lists at the top 260 slash 230, do you see that?  A. The ratio? Yes. Q. Yes, the ratio. The normal ranges for the 260 to 230 ratio is 2.0 to 2.2, correct?  A. Not correct. Q. What is the normal ratio? A. We don't look at 260, 230. We look at 260,	3 4 5 6 7 8 9 10 11 12 13 14 15 16	have that over there?  A. CA-125?  Q. Yes. What's that marked as?  A. CA-125, that's 25.  Q. Okay. If you look at Number 25, you report there in the Method section that you treated for purposes of your CA-125 cells with a thousand micrograms per milliliter of talc for 72 hours; is that correct?  MS. O'DELL: Give me just a minute, because you didn't give me a copy of that exhibit, so I need to pull it up. Would you repeat the question, please?  BY MR. HEGARTY:  Q. Do you need the question repeated, Doctor?
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	notebook, Exhibit 2. At the top it should read RNA Concentration. Is that correct?  A. Correct. Q. Yes? A. Yes. Q. If you look over to the right-hand column where it lists at the top 260 slash 230, do you see that? A. The ratio? Yes. Q. Yes, the ratio. The normal ranges for the 260 to 230 ratio is 2.0 to 2.2, correct? A. Not correct. Q. What is the normal ratio? A. We don't look at 260, 230. We look at 260, 280. Q. Understood. But I'm focusing on 260 and 230. A. I don't know.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	have that over there?  A. CA-125?  Q. Yes. What's that marked as?  A. CA-125, that's 25.  Q. Okay. If you look at Number 25, you report there in the Method section that you treated for purposes of your CA-125 cells with a thousand micrograms per milliliter of talc for 72 hours; is that correct?  MS. O'DELL: Give me just a minute, because you didn't give me a copy of that exhibit, so I need to pull it up. Would you repeat the question, please?  BY MR. HEGARTY:  Q. Do you need the question repeated, Doctor?  A. Please.  MS. O'DELL: I need the question repeated.  BY MR. HEGARTY:
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	notebook, Exhibit 2. At the top it should read RNA Concentration. Is that correct?  A. Correct. Q. Yes? A. Yes. Q. If you look over to the right-hand column where it lists at the top 260 slash 230, do you see that? A. The ratio? Yes. Q. Yes, the ratio. The normal ranges for the 260 to 230 ratio is 2.0 to 2.2, correct? A. Not correct. Q. What is the normal ratio? A. We don't look at 260, 230. We look at 260, 280. Q. Understood. But I'm focusing on 260 and 230. A. I don't know. Q. What's the normal ratio?	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	have that over there?  A. CA-125?  Q. Yes. What's that marked as?  A. CA-125, that's 25.  Q. Okay. If you look at Number 25, you report there in the Method section that you treated for purposes of your CA-125 cells with a thousand micrograms per milliliter of talc for 72 hours; is that correct?  MS. O'DELL: Give me just a minute, because you didn't give me a copy of that exhibit, so I need to pull it up. Would you repeat the question, please?  BY MR. HEGARTY:  Q. Do you need the question repeated, Doctor?  A. Please.  MS. O'DELL: I need the question repeated.  BY MR. HEGARTY:  Q. Doctor, in the Method section

	Page 471		Page 473
1		1	that linked genital use of talcum powder to increased
2	MR. LAPINSKI: Miss Court Reporter, could you repeat the question back, please?	2	risk of epithelial ovarian cancer?
3	MR. HEGARTY: Let me let me	3	A. So when a substance induces CA-125, CA-125
4	restate it.	4	is a marker for inflammation. If a substance is able
5	BY MR. HEGARTY:	5	to induce a marker of inflammation, and we know that
6	Q. Doctor, in the Method section for this	6	inflammation in this specific marker is a marker for
7	abstract, you report on treating primary normal	7	ovarian cancer, then we conclude that it is a molecular
8	epithelial cells with or without a thousand micrograms	8	basis to that.
9	per milliliter of talc for 72 hours. Is that what you	9	Q. Can you cite for me any studies correlating
10	did?	10	elevations in CA-125 levels in patients who do not have
11	MS. O'DELL: Object to the form.	11	ovarian cancer to ovarian cancer risk?
12	THE WITNESS: Yes.	12	MS. O'DELL: Object to the form.
13	BY MR. HEGARTY:	13	THE WITNESS: Say that again,
14	Q. Where is the data that you reported treating	14	please.
15	for a thousand micrograms per milliliter of talc for	15	BY MR. HEGARTY:
16	72 hours for the CA-125 test?	16	Q. Sure. Can you cite for me any published
17	A. Page 12 and 13.	17	studies correlating elevations in CA-125 levels in
18	Q. Of which book?	18	women who do not have ovarian cancer to ovarian
19	A. Two.	19	cancer to risk of ovarian cancer?
20	MS. O'DELL: And that's	20	MS. O'DELL: Object to the form.
21	Exhibit 24. Excuse me. I apologize. It's not	21 22	BY MR. HEGARTY:
22 23	Exhibit 24. It's BY MR. HEGARTY:	23	Q. In other words, showing an association between elevated CA-125 levels and the risk of ovarian
24	Q. Can you show me that page, please?	24	cancer?
25	A. (The witness complies).	25	A. Yeah, yeah.
	71. (The witness complies).		71. Tours, yours.
	Page 472		Page 474
1	MS. O'DELL: It's Exhibit 25 3,	1	MS. O'DELL: Object to the form.
2	excuse me.	2	THE WITNESS: I'm not I'm not
3	THE WITNESS: Thank you.	3	this is not my specialty. I would defer this to an
4	BY MR. HEGARTY:	4	OB/GYN oncologist. But what I know, my interest here,
5	Q. You report that you used talc from	5	anything that induces inflammation is what I'm
6	Sigma-Aldrich; is that correct?	6	
			interested in. In my mind, anything that induces
7	A. No.	7	inflammation is associated with increased risk based on
7 8	Q. Where did your talc come from?	7 8	inflammation is associated with increased risk based on the data that we've shown.
7 8 9	<ul><li>Q. Where did your talc come from?</li><li>A. Fisher. This is Fisher. Sigma-Aldrich is</li></ul>	7 8 9	inflammation is associated with increased risk based on the data that we've shown. BY MR. HEGARTY:
7 8 9 10	<ul><li>Q. Where did your talc come from?</li><li>A. Fisher. This is Fisher. Sigma-Aldrich is from the south cell line.</li></ul>	7 8 9 10	inflammation is associated with increased risk based on the data that we've shown.  BY MR. HEGARTY:  Q. Can you cite for me any published studies
7 8 9 10 11	<ul><li>Q. Where did your talc come from?</li><li>A. Fisher. This is Fisher. Sigma-Aldrich is from the south cell line.</li><li>Q. So that's a mistake, correct?</li></ul>	7 8 9 10 11	inflammation is associated with increased risk based on the data that we've shown.  BY MR. HEGARTY:  Q. Can you cite for me any published studies correlating increased levels of CA-125 with ovarian
7 8 9 10 11 12	<ul> <li>Q. Where did your talc come from?</li> <li>A. Fisher. This is Fisher. Sigma-Aldrich is from the south cell line.</li> <li>Q. So that's a mistake, correct?</li> <li>MS. O'DELL: Object to the form.</li> </ul>	7 8 9 10 11 12	inflammation is associated with increased risk based on the data that we've shown.  BY MR. HEGARTY:  Q. Can you cite for me any published studies correlating increased levels of CA-125 with ovarian cancer risk?
7 8 9 10 11	<ul> <li>Q. Where did your talc come from?</li> <li>A. Fisher. This is Fisher. Sigma-Aldrich is from the south cell line.</li> <li>Q. So that's a mistake, correct?</li> <li>MS. O'DELL: Object to the form.</li> <li>BY MR. HEGARTY:</li> </ul>	7 8 9 10 11	inflammation is associated with increased risk based on the data that we've shown.  BY MR. HEGARTY:  Q. Can you cite for me any published studies correlating increased levels of CA-125 with ovarian
7 8 9 10 11 12	<ul> <li>Q. Where did your talc come from?</li> <li>A. Fisher. This is Fisher. Sigma-Aldrich is from the south cell line.</li> <li>Q. So that's a mistake, correct?  MS. O'DELL: Object to the form.</li> <li>BY MR. HEGARTY:  Q. Is it a mistake?</li> </ul>	7 8 9 10 11 12 13	inflammation is associated with increased risk based on the data that we've shown.  BY MR. HEGARTY:  Q. Can you cite for me any published studies correlating increased levels of CA-125 with ovarian cancer risk?  MS. O'DELL: Objection, asked and
7 8 9 10 11 12 13	<ul> <li>Q. Where did your talc come from?</li> <li>A. Fisher. This is Fisher. Sigma-Aldrich is from the south cell line.</li> <li>Q. So that's a mistake, correct?</li> <li>MS. O'DELL: Object to the form.</li> <li>BY MR. HEGARTY:</li> </ul>	7 8 9 10 11 12 13	inflammation is associated with increased risk based on the data that we've shown.  BY MR. HEGARTY:  Q. Can you cite for me any published studies correlating increased levels of CA-125 with ovarian cancer risk?  MS. O'DELL: Objection, asked and answered.
7 8 9 10 11 12 13 14	<ul> <li>Q. Where did your talc come from?</li> <li>A. Fisher. This is Fisher. Sigma-Aldrich is from the south cell line.</li> <li>Q. So that's a mistake, correct?  MS. O'DELL: Object to the form.</li> <li>BY MR. HEGARTY:</li> <li>Q. Is it a mistake?</li> <li>A. I think this was trying to refer to ATCC</li> </ul>	7 8 9 10 11 12 13 14	inflammation is associated with increased risk based on the data that we've shown.  BY MR. HEGARTY:  Q. Can you cite for me any published studies correlating increased levels of CA-125 with ovarian cancer risk?  MS. O'DELL: Objection, asked and answered.  THE WITNESS: It is correlated
7 8 9 10 11 12 13 14 15	<ul> <li>Q. Where did your talc come from?</li> <li>A. Fisher. This is Fisher. Sigma-Aldrich is from the south cell line.</li> <li>Q. So that's a mistake, correct?  MS. O'DELL: Object to the form.</li> <li>BY MR. HEGARTY:  Q. Is it a mistake?  A. I think this was trying to refer to ATCC cells, where we got them from, the cell lines that we</li> </ul>	7 8 9 10 11 12 13 14 15	inflammation is associated with increased risk based on the data that we've shown.  BY MR. HEGARTY:  Q. Can you cite for me any published studies correlating increased levels of CA-125 with ovarian cancer risk?  MS. O'DELL: Objection, asked and answered.  THE WITNESS: It is correlated with with inflammation, it's correlated with the
7 8 9 10 11 12 13 14 15 16 17	<ul> <li>Q. Where did your talc come from?</li> <li>A. Fisher. This is Fisher. Sigma-Aldrich is from the south cell line.</li> <li>Q. So that's a mistake, correct?  MS. O'DELL: Object to the form.</li> <li>BY MR. HEGARTY: Q. Is it a mistake? A. I think this was trying to refer to ATCC cells, where we got them from, the cell lines that we used.</li> </ul>	7 8 9 10 11 12 13 14 15 16	inflammation is associated with increased risk based on the data that we've shown.  BY MR. HEGARTY:  Q. Can you cite for me any published studies correlating increased levels of CA-125 with ovarian cancer risk?  MS. O'DELL: Objection, asked and answered.  THE WITNESS: It is correlated with with inflammation, it's correlated with the pathogenesis of ovarian cancer.
7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>Q. Where did your talc come from?</li> <li>A. Fisher. This is Fisher. Sigma-Aldrich is from the south cell line.</li> <li>Q. So that's a mistake, correct?  MS. O'DELL: Object to the form.</li> <li>BY MR. HEGARTY:  Q. Is it a mistake?  A. I think this was trying to refer to ATCC cells, where we got them from, the cell lines that we used.</li> <li>Q. In the Conclusion section, you say that this</li> </ul>	7 8 9 10 11 12 13 14 15 16 17	inflammation is associated with increased risk based on the data that we've shown.  BY MR. HEGARTY:  Q. Can you cite for me any published studies correlating increased levels of CA-125 with ovarian cancer risk?  MS. O'DELL: Objection, asked and answered.  THE WITNESS: It is correlated with with inflammation, it's correlated with the pathogenesis of ovarian cancer.  BY MR. HEGARTY:
7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>Q. Where did your talc come from?</li> <li>A. Fisher. This is Fisher. Sigma-Aldrich is from the south cell line.</li> <li>Q. So that's a mistake, correct?  MS. O'DELL: Object to the form.</li> <li>BY MR. HEGARTY:  Q. Is it a mistake?  A. I think this was trying to refer to ATCC cells, where we got them from, the cell lines that we used.</li> <li>Q. In the Conclusion section, you say that this will provide a molecular basis to previous reports that</li> </ul>	7 8 9 10 11 12 13 14 15 16 17 18	inflammation is associated with increased risk based on the data that we've shown.  BY MR. HEGARTY:  Q. Can you cite for me any published studies correlating increased levels of CA-125 with ovarian cancer risk?  MS. O'DELL: Objection, asked and answered.  THE WITNESS: It is correlated with with inflammation, it's correlated with the pathogenesis of ovarian cancer.  BY MR. HEGARTY:  Q. Can you cite for me any studies that say that?  A. Pathogenesis?
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>Q. Where did your talc come from?</li> <li>A. Fisher. This is Fisher. Sigma-Aldrich is from the south cell line.</li> <li>Q. So that's a mistake, correct?  MS. O'DELL: Object to the form.</li> <li>BY MR. HEGARTY: Q. Is it a mistake? A. I think this was trying to refer to ATCC cells, where we got them from, the cell lines that we used. Q. In the Conclusion section, you say that this will provide a molecular basis to previous reports that linked genital use of talcum powder to increased risk of epithelial ovarian cancer. Do you see where I'm reading?</li> </ul>	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	inflammation is associated with increased risk based on the data that we've shown.  BY MR. HEGARTY:  Q. Can you cite for me any published studies correlating increased levels of CA-125 with ovarian cancer risk?  MS. O'DELL: Objection, asked and answered.  THE WITNESS: It is correlated with with inflammation, it's correlated with the pathogenesis of ovarian cancer.  BY MR. HEGARTY:  Q. Can you cite for me any studies that say that?  A. Pathogenesis?  Q. No, that it's correlated with inflammation?
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>Q. Where did your talc come from?</li> <li>A. Fisher. This is Fisher. Sigma-Aldrich is from the south cell line.</li> <li>Q. So that's a mistake, correct?  MS. O'DELL: Object to the form.</li> <li>BY MR. HEGARTY: Q. Is it a mistake? A. I think this was trying to refer to ATCC cells, where we got them from, the cell lines that we used. Q. In the Conclusion section, you say that this will provide a molecular basis to previous reports that linked genital use of talcum powder to increased risk of epithelial ovarian cancer. Do you see where I'm reading?  A. Yes.</li> </ul>	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	inflammation is associated with increased risk based on the data that we've shown.  BY MR. HEGARTY:  Q. Can you cite for me any published studies correlating increased levels of CA-125 with ovarian cancer risk?  MS. O'DELL: Objection, asked and answered.  THE WITNESS: It is correlated with with inflammation, it's correlated with the pathogenesis of ovarian cancer.  BY MR. HEGARTY:  Q. Can you cite for me any studies that say that?  A. Pathogenesis?  Q. No, that it's correlated with inflammation?  MS. O'DELL: Object to form.
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	<ul> <li>Q. Where did your talc come from?</li> <li>A. Fisher. This is Fisher. Sigma-Aldrich is from the south cell line.</li> <li>Q. So that's a mistake, correct?  MS. O'DELL: Object to the form.</li> <li>BY MR. HEGARTY: Q. Is it a mistake? A. I think this was trying to refer to ATCC cells, where we got them from, the cell lines that we used. Q. In the Conclusion section, you say that this will provide a molecular basis to previous reports that linked genital use of talcum powder to increased risk of epithelial ovarian cancer. Do you see where I'm reading?  A. Yes. Q. How will those results or how did those</li> </ul>	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	inflammation is associated with increased risk based on the data that we've shown.  BY MR. HEGARTY:  Q. Can you cite for me any published studies correlating increased levels of CA-125 with ovarian cancer risk?  MS. O'DELL: Objection, asked and answered.  THE WITNESS: It is correlated with the pathogenesis of ovarian cancer.  BY MR. HEGARTY:  Q. Can you cite for me any studies that say that?  A. Pathogenesis?  Q. No, that it's correlated with inflammation?  MS. O'DELL: Object to form.  THE WITNESS: I'm talking about
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>Q. Where did your talc come from?</li> <li>A. Fisher. This is Fisher. Sigma-Aldrich is from the south cell line.</li> <li>Q. So that's a mistake, correct?  MS. O'DELL: Object to the form.</li> <li>BY MR. HEGARTY: Q. Is it a mistake? A. I think this was trying to refer to ATCC cells, where we got them from, the cell lines that we used. Q. In the Conclusion section, you say that this will provide a molecular basis to previous reports that linked genital use of talcum powder to increased risk of epithelial ovarian cancer. Do you see where I'm reading?  A. Yes.</li> </ul>	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	inflammation is associated with increased risk based on the data that we've shown.  BY MR. HEGARTY:  Q. Can you cite for me any published studies correlating increased levels of CA-125 with ovarian cancer risk?  MS. O'DELL: Objection, asked and answered.  THE WITNESS: It is correlated with with inflammation, it's correlated with the pathogenesis of ovarian cancer.  BY MR. HEGARTY:  Q. Can you cite for me any studies that say that?  A. Pathogenesis?  Q. No, that it's correlated with inflammation?  MS. O'DELL: Object to form.

	Page 475		Page 477
1	BY MR. HEGARTY:	1	Q. Fair point. Did you include a conflict of
2	Q. Correct.	2	interest disclosure with this abstract?
3	A not CA-125. As I told you, CA-125 I'm	3	A. This is SRI?
4	not an expert in. This for a I defer this to an	4	Q. Correct.
5	oncologist OB/GYN oncologist. But what I'm saying	5	A. They do not require that.
6	is very clear. Anything that induces inflammation, and	6	Q. I'm sorry. This is Reproductive Sciences.
7	specifically inflammation that is linked to pathogens	7	A. SRI.
8	is ovarian cancer.	8	DEPOSITION EXHIBIT 28
9	Q. For this abstract, did you include any	9	Correspondence From the FTO
10	conflict of interest disclosure?	10	WAS MARKED BY THE REPORTER
11	A. What abstract is this?	11	FOR IDENTIFICATION
12	Q. The abstract Number 25, Exhibit Number 25.	12	BY MR. HEGARTY:
13	A. You don't need to include any conflict of	13	Q. I'm going to next mark as Exhibit 28
14	interest for any SRI abstract.	14	correspondence from the FTO regarding the 50th Annual
15	Q. Okay. Next, would you find Exhibit 26,	15	Meeting on Women's Cancer in March 2019. Do you see
16	which we previously marked as which is the F-098	16	that?
17	abstract? It was previously marked as 26.	17	A. This is this is the the poster work we
18	A. I don't have it.	18	are going to present in Honolulu, yes.
19	Q. I just saw it there I think.	19	MS. O'DELL: I think you said 2019.
20	A. Where?	20 21	THE WITNESS: Yeah.
21	Q. Right there.		MS. O'DELL: But I want to be clear
22 23	A. Sorry.	22 23	on what the question is.
23	Q. In the Method section of that abstract, you	23	BY MR. HEGARTY:
25	again report using talc from Sigma-Aldrich; is that correct?	25	Q. Have you prepared that poster?
25	correct:	25	A. It's a March 16, 2019.
	Page 476		Page 478
1	A. Again	1	Q. Right. Have you prepared that poster?
2	MS. O'DELL: Object to form.	2	A. Yes.
3	THE WITNESS: this refers to the	3	Q. Do you have a copy of it?
4	cell lines. The talc we used for this abstract was	4	A. No.
5	from Fisher.	5	Q. Well, I asked you if you prepared it, and
6	BY MR. HEGARTY:	6	you said yes.
7	Q. There's a reference from using a cell line	7	A. Yeah, Amy prepared it, Dr. Harper.
8	MDAH dash 2774. Do you see that?	8	Q. Did did Amy prepare a poster for this
9	A. Using MDAH-2774.	9	meeting?
10	Q. Yes.	10	A. I said yes.
11	A. Yes.	11	Q. And do you have a copy of it in your office?
12	Q. Why did you not use that cell line for your	12	A. Here now?
13	manuscript?	13	Q. Here now.
14	A. Which one we used for the manuscript, let me	14	A. Here now, no.
15	see. Oh, we used A2780 instead. I think that was not	15	Q. Do you have a copy in your office?
16	available when we did the manuscript. This is 2017	16	A. Do I have a copy in my office? Yes.
17	work.	17	Q. This presentation is to be about
18	Q. Did you include a a conflict of interest	18	A. It's not for the record, the copy is not
19	disclosure with this manuscript, F dash 098?	19	complete yet.
20 21	MS. O'DELL: Object to form.	20	Q. This presentation is for your manuscript; is
2.1	THE WITNESS: That's not a	21	that correct?
	manuscript.	22 23	MS. O'DELL: Object to the form. THE WITNESS: Not correct.
22	DV MD HEGADIV.		THE WITNESS: Not correct
22 23	BY MR. HEGARTY:		
22	BY MR. HEGARTY: Q. I'm sorry. A. That's an abstract.	24 25	BY MR. HEGARTY: Q. What is it for?

	Page 479		Page 481
1	A. It's this is only for the if I	1	says regarding your inquiry?
2	remember correctly, this is only for the the SNP	2	A. Correct. I picked up the phone and I called
3	analysis.	3	her to confirm it.
4	Q. The SNP analysis that's reported in your	4	DEPOSITION EXHIBIT 30
5	manuscript?	5	Correspondence Regarding the 50th
6	A. Correct. Part of the manuscript.	6	Annual SGO Meeting
7	Q. And Dr. Harper is planning to present at	7	WAS MARKED BY THE REPORTER
8	this meeting?	8	FOR IDENTIFICATION
9	A. Correct.	9	BY MR. HEGARTY:
10	DEPOSITION EXHIBIT 29	10	Q. I'm next marking as Exhibit 30
11	Correspondence Regarding SGO Meeting	11	A. I'm sorry.
12	WAS MARKED BY THE REPORTER	12	Q further correspondence regarding the
13	FOR IDENTIFICATION	13	50th Annual HGO meeting SGO meeting. Do you see
14	BY MR. HEGARTY:	14	that, Doctor?
15	Q. I'm going to next mark as Exhibit 29 another	15	A. Yes. That's to Amy, yes.
16	document we've been provided, which is correspondence	16	Q. This correspondence dates back to
17	regarding the same SGO meeting; is that correct?	17	September 12th, 2018, correct?
18	A. For submission for the abstract, yes.	18	A. It says so, yes.
19	Q. This is an e-mail from Lynette Kelley dated	19	Q. Are you a member of SGO?
20	January 29, 2019?	20	A. Yes.
21	A. Correct.	21	DEPOSITION EXHIBIT 31
22	Q. This e-mail refers to your inquiry	22	Correspondence to Ms. Thompson at
23	on the completed disclosure. Do you see that first	23	Beasley Allen Regarding an SGO Abstract
24	line?	24	WAS MARKED BY THE REPORTER
25	A. I do.	25	FOR IDENTIFICATION
	Page 480		Page 482
1		1	Page 482 BY MR. HEGARTY:
1 2	Q. Where is the disclosure that you provided?  A. Where is the disclosure?	1 2	_
	<ul><li>Q. Where is the disclosure that you provided?</li><li>A. Where is the disclosure?</li></ul>		BY MR. HEGARTY: Q. I've next marked as Exhibit 31
2	Q. Where is the disclosure that you provided?	2	BY MR. HEGARTY:  Q. I've next marked as Exhibit 31 correspondence from you to Ms. Thompson at
2	<ul><li>Q. Where is the disclosure that you provided?</li><li>A. Where is the disclosure?</li><li>Q. Well, this indicates you provided to SGO a</li></ul>	2	BY MR. HEGARTY: Q. I've next marked as Exhibit 31
2 3 4	<ul><li>Q. Where is the disclosure that you provided?</li><li>A. Where is the disclosure?</li><li>Q. Well, this indicates you provided to SGO a disclosure; is that correct?</li><li>A. It is online.</li></ul>	2 3 4	BY MR. HEGARTY:  Q. I've next marked as Exhibit 31 correspondence from you to Ms. Thompson at Beasley Allen regarding an SGO abstract, correct?
2 3 4 5	<ul> <li>Q. Where is the disclosure that you provided?</li> <li>A. Where is the disclosure?</li> <li>Q. Well, this indicates you provided to SGO a disclosure; is that correct?</li> <li>A. It is online.</li> <li>Q. The e-mail says, notes since you have no</li> </ul>	2 3 4 5	BY MR. HEGARTY:  Q. I've next marked as Exhibit 31 correspondence from you to Ms. Thompson at Beasley Allen regarding an SGO abstract, correct?  A. What is this?
2 3 4 5 6	<ul><li>Q. Where is the disclosure that you provided?</li><li>A. Where is the disclosure?</li><li>Q. Well, this indicates you provided to SGO a disclosure; is that correct?</li><li>A. It is online.</li></ul>	2 3 4 5 6	BY MR. HEGARTY:  Q. I've next marked as Exhibit 31 correspondence from you to Ms. Thompson at Beasley Allen regarding an SGO abstract, correct?  A. What is this?  Q. At the very top it says, Subject, SGO
2 3 4 5 6 7	<ul> <li>Q. Where is the disclosure that you provided?</li> <li>A. Where is the disclosure?</li> <li>Q. Well, this indicates you provided to SGO a disclosure; is that correct?</li> <li>A. It is online.</li> <li>Q. The e-mail says, notes since you have no financial ties with the commercial entity, there is</li> </ul>	2 3 4 5 6 7	BY MR. HEGARTY:  Q. I've next marked as Exhibit 31 correspondence from you to Ms. Thompson at Beasley Allen regarding an SGO abstract, correct?  A. What is this?  Q. At the very top it says, Subject, SGO Abstract.
2 3 4 5 6 7 8	<ul> <li>Q. Where is the disclosure that you provided?</li> <li>A. Where is the disclosure?</li> <li>Q. Well, this indicates you provided to SGO a disclosure; is that correct?</li> <li>A. It is online.</li> <li>Q. The e-mail says, notes since you have no financial ties with the commercial entity, there is nothing for you to disclose. Do you see where I'm</li> </ul>	2 3 4 5 6 7 8	BY MR. HEGARTY:  Q. I've next marked as Exhibit 31 correspondence from you to Ms. Thompson at Beasley Allen regarding an SGO abstract, correct?  A. What is this?  Q. At the very top it says, Subject, SGO Abstract.  A. SGO Abstract. I see it written, but
2 3 4 5 6 7 8	<ul> <li>Q. Where is the disclosure that you provided?</li> <li>A. Where is the disclosure?</li> <li>Q. Well, this indicates you provided to SGO a disclosure; is that correct?</li> <li>A. It is online.</li> <li>Q. The e-mail says, notes since you have no financial ties with the commercial entity, there is nothing for you to disclose. Do you see where I'm reading?</li> </ul>	2 3 4 5 6 7 8	BY MR. HEGARTY:  Q. I've next marked as Exhibit 31 correspondence from you to Ms. Thompson at Beasley Allen regarding an SGO abstract, correct?  A. What is this?  Q. At the very top it says, Subject, SGO Abstract.  A. SGO Abstract. I see it written, but I'm trying to remember what which one is
2 3 4 5 6 7 8 9	<ul> <li>Q. Where is the disclosure that you provided?</li> <li>A. Where is the disclosure?</li> <li>Q. Well, this indicates you provided to SGO a disclosure; is that correct?</li> <li>A. It is online.</li> <li>Q. The e-mail says, notes since you have no financial ties with the commercial entity, there is nothing for you to disclose. Do you see where I'm reading?</li> <li>A. I do.</li> </ul>	2 3 4 5 6 7 8 9	BY MR. HEGARTY:  Q. I've next marked as Exhibit 31 correspondence from you to Ms. Thompson at Beasley Allen regarding an SGO abstract, correct?  A. What is this?  Q. At the very top it says, Subject, SGO Abstract.  A. SGO Abstract. I see it written, but I'm trying to remember what which one is this.
2 3 4 5 6 7 8 9 10	<ul> <li>Q. Where is the disclosure that you provided?</li> <li>A. Where is the disclosure?</li> <li>Q. Well, this indicates you provided to SGO a disclosure; is that correct?</li> <li>A. It is online.</li> <li>Q. The e-mail says, notes since you have no financial ties with the commercial entity, there is nothing for you to disclose. Do you see where I'm reading?</li> <li>A. I do.</li> <li>Q. Do you know what she means by that</li> </ul>	2 3 4 5 6 7 8 9 10	BY MR. HEGARTY:  Q. I've next marked as Exhibit 31 correspondence from you to Ms. Thompson at Beasley Allen regarding an SGO abstract, correct?  A. What is this?  Q. At the very top it says, Subject, SGO Abstract.  A. SGO Abstract. I see it written, but I'm trying to remember what which one is this.  Q. Well, is this the abstract for the SGO
2 3 4 5 6 7 8 9 10 11	<ul> <li>Q. Where is the disclosure that you provided?</li> <li>A. Where is the disclosure?</li> <li>Q. Well, this indicates you provided to SGO a disclosure; is that correct?</li> <li>A. It is online.</li> <li>Q. The e-mail says, notes since you have no financial ties with the commercial entity, there is nothing for you to disclose. Do you see where I'm reading?</li> <li>A. I do.</li> <li>Q. Do you know what she means by that statement?</li> </ul>	2 3 4 5 6 7 8 9 10 11	BY MR. HEGARTY:  Q. I've next marked as Exhibit 31 correspondence from you to Ms. Thompson at Beasley Allen regarding an SGO abstract, correct?  A. What is this?  Q. At the very top it says, Subject, SGO Abstract.  A. SGO Abstract. I see it written, but I'm trying to remember what which one is this.  Q. Well, is this the abstract for the SGO meeting?
2 3 4 5 6 7 8 9 10 11 12 13	<ul> <li>Q. Where is the disclosure that you provided?</li> <li>A. Where is the disclosure?</li> <li>Q. Well, this indicates you provided to SGO a disclosure; is that correct?</li> <li>A. It is online.</li> <li>Q. The e-mail says, notes since you have no financial ties with the commercial entity, there is nothing for you to disclose. Do you see where I'm reading?</li> <li>A. I do.</li> <li>Q. Do you know what she means by that statement?</li> <li>A. Yes. Because in the disclosure form it says</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13	BY MR. HEGARTY:  Q. I've next marked as Exhibit 31 correspondence from you to Ms. Thompson at Beasley Allen regarding an SGO abstract, correct?  A. What is this?  Q. At the very top it says, Subject, SGO Abstract.  A. SGO Abstract. I see it written, but I'm trying to remember what which one is this.  Q. Well, is this the abstract for the SGO meeting?  A. Is it? I don't know. I can't remember.
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	Page 483		Page 485
1	THE WITNESS: What's wrong?	1	March 2019, correct?
2	MS. O'DELL: Object to any inquiry	2	A. Correct.
3	that relates to communications with counsel, so I	3	Q. For what study does this relate to?
4	instruct you not to divulge communications with	4	A. This this particular one, Talcum Powder
5	counsel.	5	Enhances Key Mechanism of Ovarian Cancer, Development
6	MR. LAPINSKI: Let me see that.	6	and Progression.
7	BY MR. HEGARTY:	7	Q. Is this the same subject as your
8	Q. At the very end of the abstract,	8	manuscript?
9	Doctor	9	A. Part of it, yes.
10	A. Here?	10	Q. Has this been accepted?
11	Q Exhibit 31, where it talks about the	11	A. Yes, and I'm going to present it.
12	first presenting author, it says, will not be	12	Q. Has there been any further communication
13	published. What does that mean?	13	with this group about this presentation, beyond what we
14	A. I don't know.	14	look at here?
15	Q. Okay. You do intend to publish part of this	15	A. This group who? SRI?
16	data, correct?	16	Q. The SRI?
17	A. This is already accepted and published.	17	A. No. We just get an acceptance letter.
18	Q. So why is she saying that	18	Q. Have you prepared the abstract yet?
19	A. Who is "she"? I don't know where this is	19	A. Not yet. You mean the poster?
20	coming from.	20	Q. Well, the poster or the abstract?
21	Q. Let me finish my question. Why does it say	21	A. That's already been submitted.
22	will not be published?	22	Q. Do you have a copy of the abstract?
23	A. Hold on one second. Abstract this is	23	A. You should have it somewhere. It's an
24	from me I have no idea why it says that, because we	24	abstract.
25	submitted it and it's accepted. It's published. When	25	Q. Well, I don't think we do, but you think
	Page 484		Page 486
1	it's accepted, it's published.	1	there is a copy of the abstract?
2	Q. Dr. Harper is a fellow; is that correct?	2	A. What we submitted to SRI, I think you should
3	A. Oh, now I remember. Yes, yes.	3	have a copy. You should have a copy, yeah. But it's
4	Q. Okay. You said you remember?		
		4	
5		4 5	accepted.
5 6	A. Yeah, yeah. You know where they I think,		accepted.  Q. Next I want to ask you about this this
	A. Yeah, yeah. You know where they I think, I'm not quite sure, but I think when they have the	5	accepted.  Q. Next I want to ask you about this this document we initially we already marked, which is
6	A. Yeah, yeah. You know where they I think, I'm not quite sure, but I think when they have the e-mail where they say confidential, whatever, whatever,	5 6	accepted.  Q. Next I want to ask you about this this document we initially we already marked, which is the submission of a manuscript to Gynecologic Oncology.
6 7	A. Yeah, yeah. You know where they I think, I'm not quite sure, but I think when they have the e-mail where they say confidential, whatever, whatever, I think that's part of it.	5 6 7 8	accepted.  Q. Next I want to ask you about this this document we initially we already marked, which is the submission of a manuscript to Gynecologic Oncology. Can you find that, please?
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6 7 8 9 10 11 12 13 14 15 16 17	A. Yeah, yeah. You know where they I think, I'm not quite sure, but I think when they have the e-mail where they say confidential, whatever, whatever, I think that's part of it.  You know, some e-mails they have everything in this e-mail is confidential, and it's like it reads like that, but maybe this is part of it. I don't know what the answer is. But it is going to be published. It is already accepted, and it's going to be presented.  DEPOSITION EXHIBIT 32  Abstract Submission to the 66th Annual Scientific Meeting For the Society of Reproductive Investigation in Paris March	5 6 7 8 9 10 11 12 13 14 15 16 17 18	accepted.  Q. Next I want to ask you about this this document we initially we already marked, which is the submission of a manuscript to Gynecologic Oncology. Can you find that, please?  MS. O'DELL: Exhibit 27?  MR. HEGARTY: Exhibit 27.  THE WITNESS: Okay.  BY MR. HEGARTY:  Q. This submission includes at the bottom, suggested reviewers. Do you see that?  A. Yes.  Q. Were are these reviewers you suggested?  A. Yes. They ask you to.  Q. Have you communicated with these reviewers
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6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Yeah, yeah. You know where they I think, I'm not quite sure, but I think when they have the e-mail where they say confidential, whatever, whatever, I think that's part of it.  You know, some e-mails they have everything in this e-mail is confidential, and it's like it reads like that, but maybe this is part of it. I don't know what the answer is. But it is going to be published. It is already accepted, and it's going to be presented.  DEPOSITION EXHIBIT 32  Abstract Submission to the 66th Annual Scientific Meeting For the Society of Reproductive Investigation in Paris March 2019  WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY:	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	accepted.  Q. Next I want to ask you about this this document we initially we already marked, which is the submission of a manuscript to Gynecologic Oncology. Can you find that, please?  MS. O'DELL: Exhibit 27?  MR. HEGARTY: Exhibit 27.  THE WITNESS: Okay.  BY MR. HEGARTY:  Q. This submission includes at the bottom, suggested reviewers. Do you see that?  A. Yes.  Q. Were are these reviewers you suggested?  A. Yes. They ask you to.  Q. Have you communicated with these reviewers about your manuscript?  A. No.  Q. If you turn to the turn to page 13 of this of the manuscript, please.
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yeah, yeah. You know where they I think, I'm not quite sure, but I think when they have the e-mail where they say confidential, whatever, whatever, I think that's part of it.  You know, some e-mails they have everything in this e-mail is confidential, and it's like it reads like that, but maybe this is part of it. I don't know what the answer is. But it is going to be published. It is already accepted, and it's going to be presented.  DEPOSITION EXHIBIT 32  Abstract Submission to the 66th Annual Scientific Meeting For the Society of Reproductive Investigation in Paris March 2019  WAS MARKED BY THE REPORTER FOR IDENTIFICATION	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	accepted.  Q. Next I want to ask you about this this document we initially we already marked, which is the submission of a manuscript to Gynecologic Oncology. Can you find that, please?  MS. O'DELL: Exhibit 27?  MR. HEGARTY: Exhibit 27.  THE WITNESS: Okay.  BY MR. HEGARTY:  Q. This submission includes at the bottom, suggested reviewers. Do you see that?  A. Yes.  Q. Were are these reviewers you suggested?  A. Yes. They ask you to.  Q. Have you communicated with these reviewers about your manuscript?  A. No.  Q. If you turn to the turn to page 13 of

	Page 487		Page 489
1	disclose to declare; is that correct?	1	A. Which one are you talking about?
2	A. Correct.	2	Q. 34.
3	Q. So there you made no reference to your	3	A. Yes. It's an automated e-mail. Yes, what
4	serving as a consulting expert for Plaintiffs in the	4	about it?
5	talc litigation, correct?	5	Q. This is just an this is an e-mail
6	A. We didn't think we needed to do it.	6	advising you that your manuscript has got a number,
7	Q. Why did you think you didn't need to?	7	correct?
8	A. I because we don't think that this is a	8	A. That's the same e-mail like this one. I got
9	commercial conflict of interest because I did the	9	a number, yes. Number
10	work in my lab, and I paid for it from my discretion	10	DEPOSITION EXHIBIT 35
11	fund, and everything from that, it's another paper for	11	Final Decision, Rejection of Manuscript
12	me, and I'm not gaining any special financial interest	12	WAS MARKED BY THE REPORTER
13	from it, other than it looks like any other paper I	13	FOR IDENTIFICATION
14	have.	14	BY MR. HEGARTY:
15	Q. This manuscript reported results for	15	Q. I've next marked as Exhibit Number 35 what's
16	48 hours. Why did you change from 48 hours to	16	entitled at the top Final Decision. This is the
17	reporting 72 hours?	17	rejection of your manuscript by Gynecologic Oncology;
18	A. Yeah. You asked me this question	18	is that correct?
19	previously, and I told you every 48 hours will be	19	A. This is the review results of my, yeah,
20	corrected to 72 hours.	20	Gynecology Oncology manuscript.
21	Q. So in the manuscript so in this	21	Q. Included within this document are the
22	manuscript submission, the reference to 48 should be	22	reviewer comments, correct?
23	to 72?	23	A. Correct.
24	A. We fixed it in the SRI manuscript to	24	Q. Did you provide any response to the reviewer
25	72 hours. All the work was done at 72 hours.	25	comments?
25	/2 hours. All the work was done at /2 hours.  Page 488	25	comments?  Page 490
25 1		25	Page 490
	Page 488		
1	Page 488 DEPOSITION EXHIBIT 33	1	Page 490  A. No. Response to this manuscript to this
1 2	Page 488 DEPOSITION EXHIBIT 33 Notification of Submission to	1 2	Page 490  A. No. Response to this manuscript to this journal?
1 2 3	Page 488  DEPOSITION EXHIBIT 33  Notification of Submission to  Gynecologic Oncology	1 2 3	Page 490  A. No. Response to this manuscript to this journal?  Q. Correct.
1 2 3 4	Page 488  DEPOSITION EXHIBIT 33  Notification of Submission to Gynecologic Oncology  WAS MARKED BY THE REPORTER	1 2 3 4	Page 490  A. No. Response to this manuscript to this journal?  Q. Correct.  A. No.
1 2 3 4 5	Page 488  DEPOSITION EXHIBIT 33  Notification of Submission to Gynecologic Oncology  WAS MARKED BY THE REPORTER  FOR IDENTIFICATION	1 2 3 4 5	A. No. Response to this manuscript to this journal? Q. Correct. A. No. Q. Was this the last communication you had with
1 2 3 4 5	Page 488  DEPOSITION EXHIBIT 33  Notification of Submission to Gynecologic Oncology  WAS MARKED BY THE REPORTER  FOR IDENTIFICATION  MS. O'DELL: Did you put a number on	1 2 3 4 5 6	A. No. Response to this manuscript to this journal?  Q. Correct. A. No. Q. Was this the last communication you had with Gynecologic Oncology regarding your manuscript?
1 2 3 4 5 6	Page 488  DEPOSITION EXHIBIT 33  Notification of Submission to Gynecologic Oncology  WAS MARKED BY THE REPORTER  FOR IDENTIFICATION  MS. O'DELL: Did you put a number on that?	1 2 3 4 5 6	Page 490  A. No. Response to this manuscript to this journal?  Q. Correct.  A. No.  Q. Was this the last communication you had with Gynecologic Oncology regarding your manuscript?  A. This is  Q. 35?  A. Yes.
1 2 3 4 5 6 7 8 9	DEPOSITION EXHIBIT 33 Notification of Submission to Gynecologic Oncology WAS MARKED BY THE REPORTER FOR IDENTIFICATION MS. O'DELL: Did you put a number on that?  MR. HEGARTY: Yes. BY MR. HEGARTY: Q. I've next marked as Exhibit 33 the	1 2 3 4 5 6 7 8 9	A. No. Response to this manuscript to this journal?  Q. Correct. A. No. Q. Was this the last communication you had with Gynecologic Oncology regarding your manuscript? A. This is Q. 35? A. Yes. DEPOSITION EXHIBIT 36
1 2 3 4 5 6 7 8	DEPOSITION EXHIBIT 33 Notification of Submission to Gynecologic Oncology WAS MARKED BY THE REPORTER FOR IDENTIFICATION MS. O'DELL: Did you put a number on that?  MR. HEGARTY: Yes. BY MR. HEGARTY: Q. I've next marked as Exhibit 33 the notification of your submission to Gynecologic	1 2 3 4 5 6 7 8	A. No. Response to this manuscript to this journal?  Q. Correct. A. No. Q. Was this the last communication you had with Gynecologic Oncology regarding your manuscript? A. This is Q. 35? A. Yes. DEPOSITION EXHIBIT 36 Manuscript to Reproductive Sciences,
1 2 3 4 5 6 7 8 9 10 11	DEPOSITION EXHIBIT 33 Notification of Submission to Gynecologic Oncology WAS MARKED BY THE REPORTER FOR IDENTIFICATION MS. O'DELL: Did you put a number on that? MR. HEGARTY: Yes. BY MR. HEGARTY: Q. I've next marked as Exhibit 33 the notification of your submission to Gynecologic Oncology, correct?	1 2 3 4 5 6 7 8 9 10 11	A. No. Response to this manuscript to this journal?  Q. Correct. A. No. Q. Was this the last communication you had with Gynecologic Oncology regarding your manuscript? A. This is Q. 35? A. Yes. DEPOSITION EXHIBIT 36 Manuscript to Reproductive Sciences, Submission Date of January 3, 2019
1 2 3 4 5 6 7 8 9 10 11 12	DEPOSITION EXHIBIT 33 Notification of Submission to Gynecologic Oncology WAS MARKED BY THE REPORTER FOR IDENTIFICATION MS. O'DELL: Did you put a number on that? MR. HEGARTY: Yes. BY MR. HEGARTY: Q. I've next marked as Exhibit 33 the notification of your submission to Gynecologic Oncology, correct? A. Correct.	1 2 3 4 5 6 7 8 9 10 11 12 13	A. No. Response to this manuscript to this journal?  Q. Correct. A. No. Q. Was this the last communication you had with Gynecologic Oncology regarding your manuscript? A. This is Q. 35? A. Yes. DEPOSITION EXHIBIT 36 Manuscript to Reproductive Sciences, Submission Date of January 3, 2019 WAS MARKED BY THE REPORTER
1 2 3 4 5 6 7 8 9 10 11 12 13 14	DEPOSITION EXHIBIT 33 Notification of Submission to Gynecologic Oncology WAS MARKED BY THE REPORTER FOR IDENTIFICATION MS. O'DELL: Did you put a number on that? MR. HEGARTY: Yes. BY MR. HEGARTY: Q. I've next marked as Exhibit 33 the notification of your submission to Gynecologic Oncology, correct? A. Correct. DEPOSITION EXHIBIT 34	1 2 3 4 5 6 7 8 9 10 11 12 13	A. No. Response to this manuscript to this journal?  Q. Correct. A. No. Q. Was this the last communication you had with Gynecologic Oncology regarding your manuscript? A. This is Q. 35? A. Yes. DEPOSITION EXHIBIT 36 Manuscript to Reproductive Sciences, Submission Date of January 3, 2019 WAS MARKED BY THE REPORTER FOR IDENTIFICATION
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	DEPOSITION EXHIBIT 33 Notification of Submission to Gynecologic Oncology WAS MARKED BY THE REPORTER FOR IDENTIFICATION MS. O'DELL: Did you put a number on that? MR. HEGARTY: Yes. BY MR. HEGARTY: Q. I've next marked as Exhibit 33 the notification of your submission to Gynecologic Oncology, correct? A. Correct. DEPOSITION EXHIBIT 34 Notification From Gynecologic Oncology	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. No. Response to this manuscript to this journal?  Q. Correct. A. No. Q. Was this the last communication you had with Gynecologic Oncology regarding your manuscript? A. This is Q. 35? A. Yes. DEPOSITION EXHIBIT 36 Manuscript to Reproductive Sciences, Submission Date of January 3, 2019 WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY:
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	DEPOSITION EXHIBIT 33 Notification of Submission to Gynecologic Oncology WAS MARKED BY THE REPORTER FOR IDENTIFICATION MS. O'DELL: Did you put a number on that? MR. HEGARTY: Yes. BY MR. HEGARTY: Q. I've next marked as Exhibit 33 the notification of your submission to Gynecologic Oncology, correct? A. Correct. DEPOSITION EXHIBIT 34 Notification From Gynecologic Oncology WAS MARKED BY THE REPORTER	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. No. Response to this manuscript to this journal?  Q. Correct. A. No. Q. Was this the last communication you had with Gynecologic Oncology regarding your manuscript? A. This is Q. 35? A. Yes. DEPOSITION EXHIBIT 36 Manuscript to Reproductive Sciences, Submission Date of January 3, 2019 WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I've next marked as 36 a copy of your
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	DEPOSITION EXHIBIT 33 Notification of Submission to Gynecologic Oncology WAS MARKED BY THE REPORTER FOR IDENTIFICATION MS. O'DELL: Did you put a number on that? MR. HEGARTY: Yes. BY MR. HEGARTY: Q. I've next marked as Exhibit 33 the notification of your submission to Gynecologic Oncology, correct? A. Correct. DEPOSITION EXHIBIT 34 Notification From Gynecologic Oncology WAS MARKED BY THE REPORTER FOR IDENTIFICATION	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. No. Response to this manuscript to this journal?  Q. Correct. A. No. Q. Was this the last communication you had with Gynecologic Oncology regarding your manuscript? A. This is Q. 35? A. Yes. DEPOSITION EXHIBIT 36 Manuscript to Reproductive Sciences, Submission Date of January 3, 2019 WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I've next marked as 36 a copy of your manuscript we received from Plaintiffs' counsel last
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	DEPOSITION EXHIBIT 33 Notification of Submission to Gynecologic Oncology WAS MARKED BY THE REPORTER FOR IDENTIFICATION MS. O'DELL: Did you put a number on that?  MR. HEGARTY: Yes. BY MR. HEGARTY: Q. I've next marked as Exhibit 33 the notification of your submission to Gynecologic Oncology, correct? A. Correct. DEPOSITION EXHIBIT 34 Notification From Gynecologic Oncology WAS MARKED BY THE REPORTER FOR IDENTIFICATION MS. O'DELL: Did you just mark	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. No. Response to this manuscript to this journal?  Q. Correct. A. No. Q. Was this the last communication you had with Gynecologic Oncology regarding your manuscript? A. This is Q. 35? A. Yes. DEPOSITION EXHIBIT 36 Manuscript to Reproductive Sciences, Submission Date of January 3, 2019 WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I've next marked as 36 a copy of your manuscript we received from Plaintiffs' counsel last week. This is the manuscript to Reproductive Sciences
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	DEPOSITION EXHIBIT 33 Notification of Submission to Gynecologic Oncology WAS MARKED BY THE REPORTER FOR IDENTIFICATION MS. O'DELL: Did you put a number on that? MR. HEGARTY: Yes. BY MR. HEGARTY: Q. I've next marked as Exhibit 33 the notification of your submission to Gynecologic Oncology, correct? A. Correct. DEPOSITION EXHIBIT 34 Notification From Gynecologic Oncology WAS MARKED BY THE REPORTER FOR IDENTIFICATION MS. O'DELL: Did you just mark another exhibit?	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. No. Response to this manuscript to this journal?  Q. Correct. A. No. Q. Was this the last communication you had with Gynecologic Oncology regarding your manuscript? A. This is Q. 35? A. Yes. DEPOSITION EXHIBIT 36 Manuscript to Reproductive Sciences, Submission Date of January 3, 2019 WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I've next marked as 36 a copy of your manuscript we received from Plaintiffs' counsel last week. This is the manuscript to Reproductive Sciences with a submission date at the very first page of
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	DEPOSITION EXHIBIT 33 Notification of Submission to Gynecologic Oncology WAS MARKED BY THE REPORTER FOR IDENTIFICATION MS. O'DELL: Did you put a number on that? MR. HEGARTY: Yes. BY MR. HEGARTY: Q. I've next marked as Exhibit 33 the notification of your submission to Gynecologic Oncology, correct? A. Correct. DEPOSITION EXHIBIT 34 Notification From Gynecologic Oncology WAS MARKED BY THE REPORTER FOR IDENTIFICATION MS. O'DELL: Did you just mark another exhibit? MR. HEGARTY: Yes.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. No. Response to this manuscript to this journal?  Q. Correct. A. No. Q. Was this the last communication you had with Gynecologic Oncology regarding your manuscript? A. This is Q. 35? A. Yes. DEPOSITION EXHIBIT 36 Manuscript to Reproductive Sciences, Submission Date of January 3, 2019 WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I've next marked as 36 a copy of your manuscript we received from Plaintiffs' counsel last week. This is the manuscript to Reproductive Sciences with a submission date at the very first page of January 3, 2019, correct?
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	DEPOSITION EXHIBIT 33 Notification of Submission to Gynecologic Oncology WAS MARKED BY THE REPORTER FOR IDENTIFICATION MS. O'DELL: Did you put a number on that? MR. HEGARTY: Yes. BY MR. HEGARTY: Q. I've next marked as Exhibit 33 the notification of your submission to Gynecologic Oncology, correct? A. Correct. DEPOSITION EXHIBIT 34 Notification From Gynecologic Oncology WAS MARKED BY THE REPORTER FOR IDENTIFICATION MS. O'DELL: Did you just mark another exhibit? MR. HEGARTY: Yes. BY MR. HEGARTY:	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. No. Response to this manuscript to this journal?  Q. Correct. A. No. Q. Was this the last communication you had with Gynecologic Oncology regarding your manuscript? A. This is Q. 35? A. Yes. DEPOSITION EXHIBIT 36 Manuscript to Reproductive Sciences, Submission Date of January 3, 2019 WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I've next marked as 36 a copy of your manuscript we received from Plaintiffs' counsel last week. This is the manuscript to Reproductive Sciences with a submission date at the very first page of January 3, 2019, correct? A. Correct.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	DEPOSITION EXHIBIT 33 Notification of Submission to Gynecologic Oncology WAS MARKED BY THE REPORTER FOR IDENTIFICATION MS. O'DELL: Did you put a number on that? MR. HEGARTY: Yes. BY MR. HEGARTY: Q. I've next marked as Exhibit 33 the notification of your submission to Gynecologic Oncology, correct? A. Correct. DEPOSITION EXHIBIT 34 Notification From Gynecologic Oncology WAS MARKED BY THE REPORTER FOR IDENTIFICATION MS. O'DELL: Did you just mark another exhibit? MR. HEGARTY: Yes. BY MR. HEGARTY: Q. I've next marked as Exhibit Number 34 a	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. No. Response to this manuscript to this journal?  Q. Correct. A. No. Q. Was this the last communication you had with Gynecologic Oncology regarding your manuscript? A. This is Q. 35? A. Yes. DEPOSITION EXHIBIT 36 Manuscript to Reproductive Sciences, Submission Date of January 3, 2019 WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I've next marked as 36 a copy of your manuscript we received from Plaintiffs' counsel last week. This is the manuscript to Reproductive Sciences with a submission date at the very first page of January 3, 2019, correct? A. Correct. DEPOSITION EXHIBIT 37
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	DEPOSITION EXHIBIT 33 Notification of Submission to Gynecologic Oncology WAS MARKED BY THE REPORTER FOR IDENTIFICATION MS. O'DELL: Did you put a number on that? MR. HEGARTY: Yes. BY MR. HEGARTY: Q. I've next marked as Exhibit 33 the notification of your submission to Gynecologic Oncology, correct? A. Correct. DEPOSITION EXHIBIT 34 Notification From Gynecologic Oncology WAS MARKED BY THE REPORTER FOR IDENTIFICATION MS. O'DELL: Did you just mark another exhibit? MR. HEGARTY: Yes. BY MR. HEGARTY: Q. I've next marked as Exhibit Number 34 a notification you received from Gynecologic Oncology	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. No. Response to this manuscript to this journal?  Q. Correct. A. No. Q. Was this the last communication you had with Gynecologic Oncology regarding your manuscript? A. This is Q. 35? A. Yes. DEPOSITION EXHIBIT 36 Manuscript to Reproductive Sciences, Submission Date of January 3, 2019 WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I've next marked as 36 a copy of your manuscript we received from Plaintiffs' counsel last week. This is the manuscript to Reproductive Sciences with a submission date at the very first page of January 3, 2019, correct? A. Correct. DEPOSITION EXHIBIT 37 Reproductive Sciences,
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	DEPOSITION EXHIBIT 33 Notification of Submission to Gynecologic Oncology WAS MARKED BY THE REPORTER FOR IDENTIFICATION MS. O'DELL: Did you put a number on that? MR. HEGARTY: Yes. BY MR. HEGARTY: Q. I've next marked as Exhibit 33 the notification of your submission to Gynecologic Oncology, correct? A. Correct. DEPOSITION EXHIBIT 34 Notification From Gynecologic Oncology WAS MARKED BY THE REPORTER FOR IDENTIFICATION MS. O'DELL: Did you just mark another exhibit? MR. HEGARTY: Yes. BY MR. HEGARTY: Q. I've next marked as Exhibit Number 34 a	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. No. Response to this manuscript to this journal?  Q. Correct. A. No. Q. Was this the last communication you had with Gynecologic Oncology regarding your manuscript? A. This is Q. 35? A. Yes. DEPOSITION EXHIBIT 36 Manuscript to Reproductive Sciences, Submission Date of January 3, 2019 WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I've next marked as 36 a copy of your manuscript we received from Plaintiffs' counsel last week. This is the manuscript to Reproductive Sciences with a submission date at the very first page of January 3, 2019, correct? A. Correct. DEPOSITION EXHIBIT 37

	Page 491		Page 493
1	FOR IDENTIFICATION	1	A. Page 13?
2	BY MR. HEGARTY:	2	Q. Correct.
3	Q. I've next marked as Exhibit 37 another	3	A. Okay.
4	document we received from Plaintiffs' counsel last	4	Q. If you look at the conflict of interest
5	week, which appears to be another copy of the same	5	section, you state, the authors declare that there is
6	document?	6	no conflicts of interest, correct?
7	A. Yes, it's the same. They look the same.	7	A. That's what it says, yes.
8	DEPOSITION EXHIBIT 38	8	Q. But in your current manuscript, you do
9	Manuscript with Submission Date	9	disclose a conflict of interest. Why did you change
10	of October 10, 2018	10	between your initial submission and your current
11	WAS MARKED BY THE REPORTER	11	version?
12	FOR IDENTIFICATION	12	A. Yeah. This was submitted by Dr. Harper, and
13	BY MR. HEGARTY:	13	when this the manuscript came back with with the
14	Q. I'm marking next as Exhibit 38 a copy of a	14	revisions, I revised it according to the reviewer
15	document received late last night from Plaintiffs'	15	comments, and I noticed that there is a mistake in the
16	counsel, which appears to be a manuscript with a	16	conflict of interest, I added it, because we really
17	submission date on the very first page of October 10,	17	don't believe that we have a conflict of interest.
18	2018. Do you see that, Doctor?	18	That's the idea.
19	A. Yes, I do.	19	Q. When you say we, who are you talking about?
20	Q. Does this does Exhibit 38 represent the	20	A. The lab, our lab. We don't believe, because
21	initial submission of your manuscript to Reproductive	21	we this is lab work from our lab, financed by our
22	Sciences?	22	lab.
23	A. Correct.	23	DEPOSITION EXHIBIT 39
24	Q. Did you submit this manuscript with any type	24	Correspondence with Reproductive Sciences
25	of cover letter?	25	Regarding Manuscript
	Page 492		
1		1	WAS MARKED BY THE REPORTER
2	A. I think so, yes. You should have it. Q. You think there is a cover letter?	2	FOR IDENTIFICATION
3	A. Yes.	3	BY MR. HEGARTY:
4	Q. I've not seen that cover letter, so I don't	4	Q. I'm next marking as Exhibit 39
5	think we have it.	5	MS. O'DELL: I'm sorry, could you
6	MS. O'DELL: I don't have it.	6	pass one this way? These are
7	THE WITNESS: No? This is	7	BY MR. HEGARTY:
8	BY MR. HEGARTY:	8	Q a copy of correspondence with
9	Q. If you would turn over to page 13 of this	9	Reproductive Sciences regarding your manuscript,
10	document.	10	correct?
11	A. Can you give me one minute one second,	11	A. Yes.
12	please?	12	DEPOSITION EXHIBIT 40
12 13	please? O. Sure, go ahead.	12 13	DEPOSITION EXHIBIT 40 Response to Reviewer Comments
	Q. Sure, go ahead.	12 13 14	Response to Reviewer Comments
13	<ul><li>Q. Sure, go ahead.</li><li>A. I just want to see. I'm not sure. I can't</li></ul>	13	Response to Reviewer Comments WAS MARKED BY THE REPORTER
13 14	Q. Sure, go ahead. A. I just want to see. I'm not sure. I can't remember. Actually, Dr. Harper submitted this, so I	13 14	Response to Reviewer Comments WAS MARKED BY THE REPORTER FOR IDENTIFICATION
13 14 15	Q. Sure, go ahead. A. I just want to see. I'm not sure. I can't remember. Actually, Dr. Harper submitted this, so I don't remember. I'll take my answer.	13 14 15	Response to Reviewer Comments WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY:
13 14 15 16 17	Q. Sure, go ahead. A. I just want to see. I'm not sure. I can't remember. Actually, Dr. Harper submitted this, so I don't remember. I'll take my answer. Q. How can you tell that Dr. Harper submitted	13 14 15 16	Response to Reviewer Comments WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I'm going to next mark as Exhibit 40 a copy
13 14 15 16	Q. Sure, go ahead. A. I just want to see. I'm not sure. I can't remember. Actually, Dr. Harper submitted this, so I don't remember. I'll take my answer.	13 14 15 16 17	Response to Reviewer Comments WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I'm going to next mark as Exhibit 40 a copy of another document received late last night. Would
13 14 15 16 17 18	Q. Sure, go ahead. A. I just want to see. I'm not sure. I can't remember. Actually, Dr. Harper submitted this, so I don't remember. I'll take my answer. Q. How can you tell that Dr. Harper submitted this?	13 14 15 16 17 18	Response to Reviewer Comments WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I'm going to next mark as Exhibit 40 a copy of another document received late last night. Would you tell me what Exhibit 40 is?
13 14 15 16 17 18	<ul> <li>Q. Sure, go ahead.</li> <li>A. I just want to see. I'm not sure. I can't remember. Actually, Dr. Harper submitted this, so I don't remember. I'll take my answer.</li> <li>Q. How can you tell that Dr. Harper submitted this?</li> <li>A. Because I instructed her I instructed her to do so.</li> </ul>	13 14 15 16 17 18 19 20	Response to Reviewer Comments WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I'm going to next mark as Exhibit 40 a copy of another document received late last night. Would you tell me what Exhibit 40 is? MR. HEGARTY: I'm not going to give
13 14 15 16 17 18 19 20	<ul> <li>Q. Sure, go ahead.</li> <li>A. I just want to see. I'm not sure. I can't remember. Actually, Dr. Harper submitted this, so I don't remember. I'll take my answer.</li> <li>Q. How can you tell that Dr. Harper submitted this?</li> <li>A. Because I instructed her I instructed her to do so.</li> <li>Q. Do you know whether she included a cover</li> </ul>	13 14 15 16 17 18 19 20 21	Response to Reviewer Comments WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I'm going to next mark as Exhibit 40 a copy of another document received late last night. Would you tell me what Exhibit 40 is? MR. HEGARTY: I'm not going to give you a copy, since you gave it to us late last night,
13 14 15 16 17 18 19 20 21	<ul> <li>Q. Sure, go ahead.</li> <li>A. I just want to see. I'm not sure. I can't remember. Actually, Dr. Harper submitted this, so I don't remember. I'll take my answer.</li> <li>Q. How can you tell that Dr. Harper submitted this?</li> <li>A. Because I instructed her I instructed her to do so.</li> <li>Q. Do you know whether she included a cover letter?</li> </ul>	13 14 15 16 17 18 19 20	Response to Reviewer Comments WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I'm going to next mark as Exhibit 40 a copy of another document received late last night. Would you tell me what Exhibit 40 is? MR. HEGARTY: I'm not going to give you a copy, since you gave it to us late last night, and I only have two copies.
13 14 15 16 17 18 19 20 21 22	<ul> <li>Q. Sure, go ahead.</li> <li>A. I just want to see. I'm not sure. I can't remember. Actually, Dr. Harper submitted this, so I don't remember. I'll take my answer.</li> <li>Q. How can you tell that Dr. Harper submitted this?</li> <li>A. Because I instructed her I instructed her to do so.</li> <li>Q. Do you know whether she included a cover letter?</li> <li>A. That's what I'm saying, I'm not sure.</li> </ul>	13 14 15 16 17 18 19 20 21	Response to Reviewer Comments WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I'm going to next mark as Exhibit 40 a copy of another document received late last night. Would you tell me what Exhibit 40 is? MR. HEGARTY: I'm not going to give you a copy, since you gave it to us late last night, and I only have two copies. THE WITNESS: So this is the
13 14 15 16 17 18 19 20 21 22 23	<ul> <li>Q. Sure, go ahead.</li> <li>A. I just want to see. I'm not sure. I can't remember. Actually, Dr. Harper submitted this, so I don't remember. I'll take my answer.</li> <li>Q. How can you tell that Dr. Harper submitted this?</li> <li>A. Because I instructed her I instructed her to do so.</li> <li>Q. Do you know whether she included a cover letter?</li> <li>A. That's what I'm saying, I'm not sure.</li> </ul>	13 14 15 16 17 18 19 20 21 22 23	Response to Reviewer Comments WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I'm going to next mark as Exhibit 40 a copy of another document received late last night. Would you tell me what Exhibit 40 is? MR. HEGARTY: I'm not going to give you a copy, since you gave it to us late last night, and I only have two copies.

	Page 495		Page 497
1	THE WITNESS: Yeah, this is my	1	BY MR. HEGARTY:
2	response.	2	Q. I've marked next as Exhibit 44 a document
3	BY MR. HEGARTY:	3	titled, The Role of Talc Powder Exposure in Ovarian
4	Q. Your response to their comments?	4	Cancer, Mechanistic Approach. Do you see that?
5	A. To the to the reviewer comments.	5	A. Yes.
6	Q. Is this the only response that you prepared	6	Q. Is this the budget document you mentioned at
7	to the reviewer comments?	7	your last deposition?
8	A. Correct.	8	A. Yes.
9	MS. O'DELL: Other than the	9	Q. Who prepared this?
10	resubmitted manuscript, which he's testified to?	10	A. I did.
11	THE WITNESS: Yeah, that's the	11	Q. When was it prepared?
12	response, yes.	12	A. September. Middle of September.
13	DEPOSITION EXHIBIT 41	13	Q. Of 2018?
14	Correspondence with Reproductive Sciences	14	A. '17.
15	Regarding Manuscript	15	Q. Of 2017. Why did you prepare this?
16	WAS MARKED BY THE REPORTER	16	A. To see how much this project would cost me
17	FOR IDENTIFICATION	17	if I want to do it.
18	BY MR. HEGARTY:	18	Q. Was this document requested by someone?
19	Q. I've marked next as Exhibit 41 additional	19	A. No.
20	correspondence you had with Reproductive Sciences	20	Q. Did someone ask you to prepare it?
21	regarding your manuscript, correct?	21	A. No.
22	A. They sent me this e-mail, yes. This is an	22	Q. Who did you prepare this for?
23	automated e-mail sent to everybody.	23	A. For me, for my lab.
24	DEPOSITION EXHIBIT 42	24	Q. Did you give this document to anybody?
25	Chart of SNP Data	25	A. This document, I gave it to Beasley Allen.
	Page 496		Page 498
1	WAS MARKED BY THE REPORTER	1	Q. Would you turn to the second page of this
2	FOR IDENTIFICATION	2	document, please? With regard to Aim I, did you
3	BY MR. HEGARTY:	3	perform the tests described in Aim I?
4	Q. I'm marking next as Exhibit 42 a chart we	4	A. It was just a proposal.
5	were provided by counsel for Plaintiffs. What is this	5	Q. Did you actually perform the tests?
6	chart?	6	A. No. My that was my plan, my thinking.
7	A. This is the SNP data.	7	Q. Your initial thinking said you strike
8	Q. The SNP data for your manuscript?	8	that. You noted with regard to Aim I that you intended
9	A. For my for my manuscript, and for the	9	to expose cells to increasing doses of talc of 100, 200
10	poster that we're going to submit, to to present.	10	and 500, correct?
	DEPOSITION EXHIBIT 43	11	a contract to the
11	-		A. That's what it says.
12	E-Mail from Sharon Pepe	12	Q. You also noted that you intended to test a
12 13	E-Mail from Sharon Pepe WAS MARKED BY THE REPORTER	12 13	Q. You also noted that you intended to test a number of markers. When you ultimately did your
12 13 14	E-Mail from Sharon Pepe WAS MARKED BY THE REPORTER FOR IDENTIFICATION	12 13 14	Q. You also noted that you intended to test a number of markers. When you ultimately did your manuscript, you did not test NADPH, Nox2 and Nox4, GST
12 13 14 15	E-Mail from Sharon Pepe WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY:	12 13 14 15	Q. You also noted that you intended to test a number of markers. When you ultimately did your manuscript, you did not test NADPH, Nox2 and Nox4, GST and 8-OHdG. Why did you not do those tests
12 13 14 15 16	E-Mail from Sharon Pepe WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I've marked marking next as Exhibit 43 a	12 13 14 15 16	Q. You also noted that you intended to test a number of markers. When you ultimately did your manuscript, you did not test NADPH, Nox2 and Nox4, GST and 8-OHdG. Why did you not do those tests MS. O'DELL: Object to form.
12 13 14 15 16 17	E-Mail from Sharon Pepe WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I've marked marking next as Exhibit 43 a copy we received last time at your deposition, which is	12 13 14 15 16 17	Q. You also noted that you intended to test a number of markers. When you ultimately did your manuscript, you did not test NADPH, Nox2 and Nox4, GST and 8-OHdG. Why did you not do those tests MS. O'DELL: Object to form. THE WITNESS: I think the
12 13 14 15 16 17	E-Mail from Sharon Pepe WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I've marked marking next as Exhibit 43 a copy we received last time at your deposition, which is an e-mail from Sharon Pepe regarding the cost of your	12 13 14 15 16 17	Q. You also noted that you intended to test a number of markers. When you ultimately did your manuscript, you did not test NADPH, Nox2 and Nox4, GST and 8-OHdG. Why did you not do those tests MS. O'DELL: Object to form. THE WITNESS: I think the activity
12 13 14 15 16 17 18	E-Mail from Sharon Pepe WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I've marked marking next as Exhibit 43 a copy we received last time at your deposition, which is an e-mail from Sharon Pepe regarding the cost of your testing, your experiments, correct?	12 13 14 15 16 17 18	Q. You also noted that you intended to test a number of markers. When you ultimately did your manuscript, you did not test NADPH, Nox2 and Nox4, GST and 8-OHdG. Why did you not do those tests MS. O'DELL: Object to form. THE WITNESS: I think the activity BY MR. HEGARTY:
12 13 14 15 16 17 18 19	E-Mail from Sharon Pepe WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I've marked marking next as Exhibit 43 a copy we received last time at your deposition, which is an e-mail from Sharon Pepe regarding the cost of your testing, your experiments, correct? A. Correct.	12 13 14 15 16 17 18 19 20	Q. You also noted that you intended to test a number of markers. When you ultimately did your manuscript, you did not test NADPH, Nox2 and Nox4, GST and 8-OHdG. Why did you not do those tests MS. O'DELL: Object to form. THE WITNESS: I think the activity BY MR. HEGARTY: Q. Other than GST?
12 13 14 15 16 17 18 19 20 21	E-Mail from Sharon Pepe WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I've marked marking next as Exhibit 43 a copy we received last time at your deposition, which is an e-mail from Sharon Pepe regarding the cost of your testing, your experiments, correct? A. Correct. DEPOSITION EXHIBIT 44	12 13 14 15 16 17 18 19 20 21	Q. You also noted that you intended to test a number of markers. When you ultimately did your manuscript, you did not test NADPH, Nox2 and Nox4, GST and 8-OHdG. Why did you not do those tests MS. O'DELL: Object to form. THE WITNESS: I think the activity BY MR. HEGARTY: Q. Other than GST? A. Yeah.
12 13 14 15 16 17 18 19 20 21	E-Mail from Sharon Pepe WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I've marked marking next as Exhibit 43 a copy we received last time at your deposition, which is an e-mail from Sharon Pepe regarding the cost of your testing, your experiments, correct? A. Correct. DEPOSITION EXHIBIT 44 The Role of Talc Powder Exposure in Ovarian	12 13 14 15 16 17 18 19 20 21	Q. You also noted that you intended to test a number of markers. When you ultimately did your manuscript, you did not test NADPH, Nox2 and Nox4, GST and 8-OHdG. Why did you not do those tests  MS. O'DELL: Object to form.  THE WITNESS: I think the activity  BY MR. HEGARTY:  Q. Other than GST?  A. Yeah. Q. Why did you not do the others?
12 13 14 15 16 17 18 19 20 21 22 23	E-Mail from Sharon Pepe WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I've marked marking next as Exhibit 43 a copy we received last time at your deposition, which is an e-mail from Sharon Pepe regarding the cost of your testing, your experiments, correct? A. Correct. DEPOSITION EXHIBIT 44 The Role of Talc Powder Exposure in Ovarian Cancer, Mechanistic Approach	12 13 14 15 16 17 18 19 20 21 22 23	Q. You also noted that you intended to test a number of markers. When you ultimately did your manuscript, you did not test NADPH, Nox2 and Nox4, GST and 8-OHdG. Why did you not do those tests MS. O'DELL: Object to form. THE WITNESS: I think the activity BY MR. HEGARTY: Q. Other than GST? A. Yeah. Q. Why did you not do the others? A. Financial. I mean, they're all the same.
12 13 14 15 16 17 18 19 20 21 22	E-Mail from Sharon Pepe WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I've marked marking next as Exhibit 43 a copy we received last time at your deposition, which is an e-mail from Sharon Pepe regarding the cost of your testing, your experiments, correct? A. Correct. DEPOSITION EXHIBIT 44 The Role of Talc Powder Exposure in Ovarian	12 13 14 15 16 17 18 19 20 21	Q. You also noted that you intended to test a number of markers. When you ultimately did your manuscript, you did not test NADPH, Nox2 and Nox4, GST and 8-OHdG. Why did you not do those tests MS. O'DELL: Object to form. THE WITNESS: I think the activity BY MR. HEGARTY: Q. Other than GST? A. Yeah. Q. Why did you not do the others?

	Page 499		Page 501
1	most key one, and it's financial basically.	1	A. After this?
2	Q. What was your methodology for picking the	2	Q. After this.
3	markers that you did?	3	A. Yes.
4	A. The one we published most with, the	4	MS. O'DELL: Object to the form.
5	technology available.	5	THE WITNESS: That's what we
6	Q. Have you not published on any on NA	6	submitted to SRI.
7	NADPH, Nox2 and Nox4 and 8-OHdG?	7	BY MR. HEGARTY:
8	MS. O'DELL: Object to form.	8	Q. And how much time total time did it take
9	THE WITNESS: We we did publish	9	to execute what you eventually did do?
10	some paper with NADPH oxidase, yes.	10	A. I cannot remember.
11	BY MR. HEGARTY:	11	MS. O'DELL: Object to the form.
12	Q. Why did you not include that marker?	12	THE WITNESS: I cannot remember.
13	A. As I said, financial.	13	BY MR. HEGARTY:
14	Q. When you say financial, what do you mean?	14	Q. If you look at Aim II, do you see that?
15	A. Money, cost.	15	A. Yes.
16	Q. It costs more to include it?	16	Q. If you turn over to the next page over, the
17	A. It costs more to include it.	17	carryover paragraph on the next page at the top
18	Q. Is there some publication where you can go	18	A. Yes.
19	to, to determine what the key markers are to do in a	19	Q you report the intent to look at a number
20	test like this?	20	of SNPs, and then you list those that include SNPs for
21	MS. O'DELL: Object to the form.	21	BRCA1 and BRCA2. Do you see that?
22	THE WITNESS: It's a practice in our	22	A. I do, correct.
23	lab that we use pro-oxidant as myeloperoxidase, iNOS,	23	Q. You did not do those tests, correct?
24	nitrite, nitrate, and anti-oxidant as SOD, catalase,	24	A. Correct.
25	and glutathiones. So just a normal it's a it's	25	Q. Why not?
	Page 500		Page 502
1	a a practice that we use in the lab.	1	A. Expenses.
2	BY MR. HEGARTY:	2	Q. When you say expenses, were you told not to
3	Q. If you look at the very end of part end	3	do them by somebody?
4	of the part of Aim I, it says, we hope to accomplish	4	A. Told, no. This is just more money to do it.
5	this aim by October 10th in order to submit our		
		5	And and unnecessary to do it.
6	findings to our premier society, Society of	5 6	And and unnecessary to do it.  Q. Why did you propose to do it in the first
6 7			· · · · · · · · · · · · · · · · · · ·
	findings to our premier society, Society of	6	Q. Why did you propose to do it in the first
7	findings to our premier society, Society of Reproductive Investigation, SRI. Do you see that?	6 7	Q. Why did you propose to do it in the first place?
7 8	findings to our premier society, Society of Reproductive Investigation, SRI. Do you see that?  A. Yes.	6 7 8	Q. Why did you propose to do it in the first place?  A. Because if you have if I have to choose
7 8 9	findings to our premier society, Society of Reproductive Investigation, SRI. Do you see that? A. Yes. Q. You did ultimately submit some findings to	6 7 8 9	Q. Why did you propose to do it in the first place?  A. Because if you have if I have to choose between oxidative BRCA1 and BRCA2 are not oxidative
7 8 9 10	findings to our premier society, Society of Reproductive Investigation, SRI. Do you see that?  A. Yes.  Q. You did ultimately submit some findings to SRI, correct?	6 7 8 9 10	Q. Why did you propose to do it in the first place?  A. Because if you have if I have to choose between oxidative BRCA1 and BRCA2 are not oxidative stress markers. They're just they can have clinical
7 8 9 10 11	findings to our premier society, Society of Reproductive Investigation, SRI. Do you see that?  A. Yes. Q. You did ultimately submit some findings to SRI, correct? A. Correct.	6 7 8 9 10 11	Q. Why did you propose to do it in the first place?  A. Because if you have if I have to choose between oxidative BRCA1 and BRCA2 are not oxidative stress markers. They're just they can have clinical value when you interpret the data using patient with
7 8 9 10 11 12	findings to our premier society, Society of Reproductive Investigation, SRI. Do you see that?  A. Yes. Q. You did ultimately submit some findings to SRI, correct? A. Correct. Q. The the description below the text says	6 7 8 9 10 11	Q. Why did you propose to do it in the first place?  A. Because if you have if I have to choose between oxidative BRCA1 and BRCA2 are not oxidative stress markers. They're just they can have clinical value when you interpret the data using patient with BRCA1 mutation versus patient without BRCA1 mutation.
7 8 9 10 11 12 13	findings to our premier society, Society of Reproductive Investigation, SRI. Do you see that? A. Yes. Q. You did ultimately submit some findings to SRI, correct? A. Correct. Q. The the description below the text says the estimated time to execute this aim is four weeks.	6 7 8 9 10 11 12	Q. Why did you propose to do it in the first place?  A. Because if you have if I have to choose between oxidative BRCA1 and BRCA2 are not oxidative stress markers. They're just they can have clinical value when you interpret the data using patient with BRCA1 mutation versus patient without BRCA1 mutation.  Q. Why did you propose to do it in the first
7 8 9 10 11 12 13	findings to our premier society, Society of Reproductive Investigation, SRI. Do you see that?  A. Yes. Q. You did ultimately submit some findings to SRI, correct? A. Correct. Q. The the description below the text says the estimated time to execute this aim is four weeks. Do you see that?	6 7 8 9 10 11 12 13	Q. Why did you propose to do it in the first place?  A. Because if you have if I have to choose between oxidative BRCA1 and BRCA2 are not oxidative stress markers. They're just they can have clinical value when you interpret the data using patient with BRCA1 mutation versus patient without BRCA1 mutation.  Q. Why did you propose to do it in the first place then?
7 8 9 10 11 12 13 14 15	findings to our premier society, Society of Reproductive Investigation, SRI. Do you see that?  A. Yes. Q. You did ultimately submit some findings to SRI, correct? A. Correct. Q. The the description below the text says the estimated time to execute this aim is four weeks. Do you see that? A. Where do you see that?	6 7 8 9 10 11 12 13 14 15	Q. Why did you propose to do it in the first place?  A. Because if you have if I have to choose between oxidative BRCA1 and BRCA2 are not oxidative stress markers. They're just they can have clinical value when you interpret the data using patient with BRCA1 mutation versus patient without BRCA1 mutation.  Q. Why did you propose to do it in the first place then?  A. I just told you.
7 8 9 10 11 12 13 14 15	findings to our premier society, Society of Reproductive Investigation, SRI. Do you see that?  A. Yes. Q. You did ultimately submit some findings to SRI, correct? A. Correct. Q. The the description below the text says the estimated time to execute this aim is four weeks. Do you see that? A. Where do you see that? Q. (Gesturing).	6 7 8 9 10 11 12 13 14 15	Q. Why did you propose to do it in the first place?  A. Because if you have if I have to choose between oxidative BRCA1 and BRCA2 are not oxidative stress markers. They're just they can have clinical value when you interpret the data using patient with BRCA1 mutation versus patient without BRCA1 mutation.  Q. Why did you propose to do it in the first place then?  A. I just told you.  Q. Why is that?
7 8 9 10 11 12 13 14 15 16	findings to our premier society, Society of Reproductive Investigation, SRI. Do you see that?  A. Yes. Q. You did ultimately submit some findings to SRI, correct? A. Correct. Q. The the description below the text says the estimated time to execute this aim is four weeks. Do you see that? A. Where do you see that? Q. (Gesturing). A. Yes.	6 7 8 9 10 11 12 13 14 15 16	Q. Why did you propose to do it in the first place?  A. Because if you have if I have to choose between oxidative BRCA1 and BRCA2 are not oxidative stress markers. They're just they can have clinical value when you interpret the data using patient with BRCA1 mutation versus patient without BRCA1 mutation.  Q. Why did you propose to do it in the first place then?  A. I just told you.  Q. Why is that?  A. Because when you interpret the data, okay,
7 8 9 10 11 12 13 14 15 16 17	findings to our premier society, Society of Reproductive Investigation, SRI. Do you see that?  A. Yes. Q. You did ultimately submit some findings to SRI, correct? A. Correct. Q. The the description below the text says the estimated time to execute this aim is four weeks. Do you see that? A. Where do you see that? Q. (Gesturing). A. Yes. Q. You did do some of the tests that are described in Aim I, correct? A. When?	6 7 8 9 10 11 12 13 14 15 16 17	Q. Why did you propose to do it in the first place?  A. Because if you have if I have to choose between oxidative BRCA1 and BRCA2 are not oxidative stress markers. They're just they can have clinical value when you interpret the data using patient with BRCA1 mutation versus patient without BRCA1 mutation.  Q. Why did you propose to do it in the first place then?  A. I just told you.  Q. Why is that?  A. Because when you interpret the data, okay, some data some response of patients with
7 8 9 10 11 12 13 14 15 16 17 18	findings to our premier society, Society of Reproductive Investigation, SRI. Do you see that?  A. Yes. Q. You did ultimately submit some findings to SRI, correct? A. Correct. Q. The the description below the text says the estimated time to execute this aim is four weeks. Do you see that? A. Where do you see that? Q. (Gesturing). A. Yes. Q. You did do some of the tests that are described in Aim I, correct?	6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Why did you propose to do it in the first place?  A. Because if you have if I have to choose between oxidative BRCA1 and BRCA2 are not oxidative stress markers. They're just they can have clinical value when you interpret the data using patient with BRCA1 mutation versus patient without BRCA1 mutation.  Q. Why did you propose to do it in the first place then?  A. I just told you.  Q. Why is that?  A. Because when you interpret the data, okay, some data some response of patients with BRCA1 negative versus BRCA1 positive, they're
7 8 9 10 11 12 13 14 15 16 17 18 19 20	findings to our premier society, Society of Reproductive Investigation, SRI. Do you see that?  A. Yes. Q. You did ultimately submit some findings to SRI, correct? A. Correct. Q. The the description below the text says the estimated time to execute this aim is four weeks. Do you see that? A. Where do you see that? Q. (Gesturing). A. Yes. Q. You did do some of the tests that are described in Aim I, correct? A. When?	6 7 8 9 10 11 12 13 14 15 16 17 18 19	Q. Why did you propose to do it in the first place?  A. Because if you have if I have to choose between oxidative BRCA1 and BRCA2 are not oxidative stress markers. They're just they can have clinical value when you interpret the data using patient with BRCA1 mutation versus patient without BRCA1 mutation.  Q. Why did you propose to do it in the first place then?  A. I just told you. Q. Why is that?  A. Because when you interpret the data, okay, some data some response of patients with BRCA1 negative versus BRCA1 positive, they're different outcome. So this will help in interpret the
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	findings to our premier society, Society of Reproductive Investigation, SRI. Do you see that?  A. Yes. Q. You did ultimately submit some findings to SRI, correct? A. Correct. Q. The the description below the text says the estimated time to execute this aim is four weeks. Do you see that? A. Where do you see that? Q. (Gesturing). A. Yes. Q. You did do some of the tests that are described in Aim I, correct? A. When? Q. You did some of the tests described with different dosages that you talk about in Aim I, correct?	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Why did you propose to do it in the first place?  A. Because if you have if I have to choose between oxidative BRCA1 and BRCA2 are not oxidative stress markers. They're just they can have clinical value when you interpret the data using patient with BRCA1 mutation versus patient without BRCA1 mutation.  Q. Why did you propose to do it in the first place then?  A. I just told you. Q. Why is that?  A. Because when you interpret the data, okay, some data some response of patients with BRCA1 negative versus BRCA1 positive, they're different outcome. So this will help in interpret the data.
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	findings to our premier society, Society of Reproductive Investigation, SRI. Do you see that?  A. Yes. Q. You did ultimately submit some findings to SRI, correct? A. Correct. Q. The the description below the text says the estimated time to execute this aim is four weeks. Do you see that? A. Where do you see that? Q. (Gesturing). A. Yes. Q. You did do some of the tests that are described in Aim I, correct? A. When? Q. You did some of the tests described with different dosages that you talk about in Aim I,	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Why did you propose to do it in the first place?  A. Because if you have if I have to choose between oxidative BRCA1 and BRCA2 are not oxidative stress markers. They're just they can have clinical value when you interpret the data using patient with BRCA1 mutation versus patient without BRCA1 mutation.  Q. Why did you propose to do it in the first place then?  A. I just told you. Q. Why is that?  A. Because when you interpret the data, okay, some data some response of patients with BRCA1 negative versus BRCA1 positive, they're different outcome. So this will help in interpret the data.  Q. The reason you didn't test those SNPs was

	Page 503		Page 505
		4	
1 2	BY MR. HEGARTY:  Q. If you look at Aim III	1 2	Q let me make sure that I'm clear. You're describing here evaluating apoptosis using cells in
3	A. You're talking about BRCA1?	3	agar, correct?
4	Q. I'm talking about BRCA1 and BRCA2.	4	MS. O'DELL: Object to the form.
5	A. Yes.	5	THE WITNESS: This is a proposal. I
6	Q. If you look at Aim III, none of those	6	don't have to do everything I said in the proposal,
7	tests strike that. Under Aim III, you have done	7	okay. I I propose to do transformation assays, and
8	none of those tests, correct?	8	then after I do the transformation assays, I will do
9	A. Not correct.	9	apoptosis. That's what I propose to do.
10	Q. Well, the Aim III includes looking	10	BY MR. HEGARTY:
11	at normal ovarian epithelial cell lines treated	11	Q. You did
12	with tale that will be washed and suspended in agar	12	A. But I did
13	at 500 cells per well and layered on a top of a base of	13	Q. I'm sorry. Go ahead.
14	20 percent agar in a 96 well plate. Did you do that	14	A. But I did I did apoptosis because I don't
15 16	test?	15 16	want to go through all the expenses doing all this experiment, and the normal ovarian primary primary
17	A. No. Q. Why did you not do that test?	17	normal ovarian cells are very, very limited, very hard
18	A. What's the right word. Expense. Is that	18	to grow, so it takes more money, more time, more effort
19	the word.	19	to grow them and to do them, and you cannot do this
20	Q. Did you do any of the tests described in	20	test with immortalized.
21	Aim III?	21	Q. You did not evaluate in your manuscript
22	A. Yes, I did.	22	apoptosis using the method described in Aim III,
23	Q. For purpose of your manuscript?	23	correct?
24	A. Yes, I did.	24	MS. O'DELL: Object to the form.
25	Q. Which one?	25	THE WITNESS: One question again,
	Page 504		Page 506
1	A. Apoptosis and proliferation.	1	I'm sorry.
2	Q. Where is that described?	2	BY MR. HEGARTY:
3	A. Apoptosis, all the way down.	3	Q. Doctor
4	MR. LAPINSKI: Dr. Saed, just make	4	A. I don't understand what you're saying.
5	sure you keep your voice up.	5	Q. You describe in Aim III a method using cells
6 7	THE WITNESS: Oh, sorry. All the	6 7	suspended in agar that from which you're going to test for apoptosis, correct?
8	way down. BY MR. HEGARTY:	8	MS. O'DELL: Object to the form.
9	Q. Show me where.	9	THE WITNESS: Not correct.
10	A. In bold, you see it, apoptosis.	10	BY MR. HEGARTY:
11	Q. But isn't but aren't the isn't the	11	Q. How is that not correct?
12	analysis for apoptosis to be taken from the cells	12	A. This is a proposal. Again, this is a
13	suspended in agar?	13	proposal to do. My proposal was to take normal
14	A. No.	14	epithelial cells primary to that assay and look for
15	MS. O'DELL: Object to form.	15	transformation and then check for apoptosis in
16	BY MR. HEGARTY:	16	period. In my manuscript, I chose to do apoptosis on
17	Q. Where do you describe in Aim III the testing	17	the immortalized cells treated with the talc powder.
18	that you said you did for apoptosis?	18	Does that make sense?
19	MS. O'DELL: Object to form.	19	Q. You chose to do a different method to
20	THE WITNESS: We're yes. We're	20	evaluate apoptosis?
21	really confusing the questions. Okay. One at a time.	21	A. No, I did not say that.
~ ~	Which one you want me to answer first?	22	Q. Well, this method says you were going to
22	DV MD HECADTY.		
23	BY MR. HEGARTY:	23	extract samples from the cells suspended in agar and
23 24	Q. Well, let me	24	test those for apoptosis, correct?
23			

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1	what you're saying?	1	BY MR. HEGARTY:
2	Q. Yes.	2	Q. You purported to do this test
3	A. No, I did not.	3	A. What's this test?
4	Q. Okay. That was my question.	4	Q using the cells suspended in agar,
5	A. I did apoptosis part of it.	5	correct
6	Q. Understood.	6	MS. O'DELL: Object to form.
7	A. In a different cell line.	7	BY MR. HEGARTY:
8	Q. Correct.	8	Q in this proposal?
9	A. Yes, thank you. I like that.	9	A. That's not a test. A test is something you
10	Q. Now, this the test you described in	10	test. This is growing cells.
11	Aim I I'm sorry. The test you described in Aim III	11	Q. You proposed to do tests from cells growing
12	is a test to look for neoplastic transformation,	12	in agar?
13	correct?	13	A. What tests?
14	MS. O'DELL: Object to the form.	14	MS. O'DELL: Object.
15	THE WITNESS: All of it, or just the	15	THE WITNESS: I'm asking you what
16	part of the agar and growing up the	16	tests you're asking me?
17	BY MR. HEGARTY:	17	BY MR. HEGARTY:
18	Q. Well, if you look at the aim, it says	18	Q. The tests you described in this
19	exposure to talc results in neoplastic transformation	19	A. What tests? Tell me, what tests?
20	of normal ovarian surface epithelial cells. Do you see	20	Q. Doctor, can you read this piece of paper?
21	that in bold?	21	A. I read it. I am the one who wrote it. I
22	A. I do.	22	know exactly what I wrote.
23	Q. That was the aim of this test, correct?	23	Q. And you wanted to do these tests
24	A. Correct.	24	A. What these tests?
25	Q. You were going to do this test and look to	25	Q because, as you say at the end, we expect
	Page 508		Page 510
1	see whether there was neoplastic transformation of	1	that exposure of normal ovarian surface epithelial
2	normal ovarian surface epithelial cells, correct?	2	cells to talc will result in neoplastic transformation
3	MS. O'DELL: Object to the form.	3	of these cells over time, which is critical in
4	There are multiple tests described in this paragraph.	4	establishing a cause-and-effect relationship. You
5	THE WITNESS: I don't we are	5	wrote that, correct?
6	talking about something I didn't do.	6	MS. O'DELL: Object. Object to the
_	BY MR. HEGARTY:	7	form.
7			101111.
8	Q. Understood.	8	
	`	8 9	THE WITNESS: What you read is from
8	A. I proposed to do, but I didn't do. It's		
8 9	`	9	THE WITNESS: What you read is from here. That is what I wrote.
8 9 10	A. I proposed to do, but I didn't do. It's just a proposal.	9 10	THE WITNESS: What you read is from here. That is what I wrote. BY MR. HEGARTY:
8 9 10 11	A. I proposed to do, but I didn't do. It's just a proposal.  Q. Right. You did not do any test to directly	9 10 11	THE WITNESS: What you read is from here. That is what I wrote.  BY MR. HEGARTY:  Q. And you did not do the tests in Aim III?
8 9 10 11 12	A. I proposed to do, but I didn't do. It's just a proposal.     Q. Right. You did not do any test to directly look at neoplastic transformation of normal epithelial	9 10 11 12	THE WITNESS: What you read is from here. That is what I wrote.  BY MR. HEGARTY:  Q. And you did not do the tests in Aim III?  MS. O'DELL: Object to the form,
8 9 10 11 12 13	A. I proposed to do, but I didn't do. It's just a proposal.  Q. Right. You did not do any test to directly look at neoplastic transformation of normal epithelial cells, correct?	9 10 11 12 13	THE WITNESS: What you read is from here. That is what I wrote.  BY MR. HEGARTY:  Q. And you did not do the tests in Aim III?  MS. O'DELL: Object to the form, misrepresents what he just said.
8 9 10 11 12 13	A. I proposed to do, but I didn't do. It's just a proposal.  Q. Right. You did not do any test to directly look at neoplastic transformation of normal epithelial cells, correct?  A. Not correct.	9 10 11 12 13 14	THE WITNESS: What you read is from here. That is what I wrote.  BY MR. HEGARTY:  Q. And you did not do the tests in Aim III?  MS. O'DELL: Object to the form, misrepresents what he just said.  BY MR. HEGARTY:
8 9 10 11 12 13 14 15	A. I proposed to do, but I didn't do. It's just a proposal.  Q. Right. You did not do any test to directly look at neoplastic transformation of normal epithelial cells, correct?  A. Not correct.  Q. How is that not correct?	9 10 11 12 13 14 15	THE WITNESS: What you read is from here. That is what I wrote.  BY MR. HEGARTY:  Q. And you did not do the tests in Aim III?  MS. O'DELL: Object to the form,  misrepresents what he just said.  BY MR. HEGARTY:  Q. Correct?
8 9 10 11 12 13 14 15	A. I proposed to do, but I didn't do. It's just a proposal.  Q. Right. You did not do any test to directly look at neoplastic transformation of normal epithelial cells, correct?  A. Not correct.  Q. How is that not correct?  A. Because I did apoptosis and proliferation.	9 10 11 12 13 14 15	THE WITNESS: What you read is from here. That is what I wrote.  BY MR. HEGARTY:  Q. And you did not do the tests in Aim III?  MS. O'DELL: Object to the form, misrepresents what he just said.  BY MR. HEGARTY:  Q. Correct?  A. I just said, if you want okay. If you
8 9 10 11 12 13 14 15 16	A. I proposed to do, but I didn't do. It's just a proposal.  Q. Right. You did not do any test to directly look at neoplastic transformation of normal epithelial cells, correct?  A. Not correct.  Q. How is that not correct?  A. Because I did apoptosis and proliferation.  Q. That's a those are different tests than	9 10 11 12 13 14 15 16	THE WITNESS: What you read is from here. That is what I wrote.  BY MR. HEGARTY:  Q. And you did not do the tests in Aim III?  MS. O'DELL: Object to the form, misrepresents what he just said.  BY MR. HEGARTY:  Q. Correct?  A. I just said, if you want okay. If you want, we can
8 9 10 11 12 13 14 15 16 17	A. I proposed to do, but I didn't do. It's just a proposal.  Q. Right. You did not do any test to directly look at neoplastic transformation of normal epithelial cells, correct?  A. Not correct.  Q. How is that not correct?  A. Because I did apoptosis and proliferation.  Q. That's a those are different tests than you describe here?	9 10 11 12 13 14 15 16 17	THE WITNESS: What you read is from here. That is what I wrote.  BY MR. HEGARTY:  Q. And you did not do the tests in Aim III?  MS. O'DELL: Object to the form, misrepresents what he just said.  BY MR. HEGARTY:  Q. Correct?  A. I just said, if you want okay. If you want, we can  MS. O'DELL: No, just be clear.
8 9 10 11 12 13 14 15 16 17 18	A. I proposed to do, but I didn't do. It's just a proposal.  Q. Right. You did not do any test to directly look at neoplastic transformation of normal epithelial cells, correct?  A. Not correct.  Q. How is that not correct?  A. Because I did apoptosis and proliferation.  Q. That's a those are different tests than you describe here?  MS. O'DELL: Object to the form.	9 10 11 12 13 14 15 16 17 18	THE WITNESS: What you read is from here. That is what I wrote.  BY MR. HEGARTY:  Q. And you did not do the tests in Aim III?  MS. O'DELL: Object to the form, misrepresents what he just said.  BY MR. HEGARTY:  Q. Correct?  A. I just said, if you want okay. If you want, we can  MS. O'DELL: No, just be clear.  THE WITNESS: spend more time.
8 9 10 11 12 13 14 15 16 17 18 19 20	A. I proposed to do, but I didn't do. It's just a proposal.  Q. Right. You did not do any test to directly look at neoplastic transformation of normal epithelial cells, correct?  A. Not correct.  Q. How is that not correct?  A. Because I did apoptosis and proliferation.  Q. That's a those are different tests than you describe here?  MS. O'DELL: Object to the form.  BY MR. HEGARTY:	9 10 11 12 13 14 15 16 17 18 19	THE WITNESS: What you read is from here. That is what I wrote.  BY MR. HEGARTY:  Q. And you did not do the tests in Aim III?  MS. O'DELL: Object to the form, misrepresents what he just said.  BY MR. HEGARTY:  Q. Correct?  A. I just said, if you want okay. If you want, we can  MS. O'DELL: No, just be clear.  THE WITNESS: spend more time.  I'm very clear. I'm very clear.
8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. I proposed to do, but I didn't do. It's just a proposal.  Q. Right. You did not do any test to directly look at neoplastic transformation of normal epithelial cells, correct?  A. Not correct. Q. How is that not correct? A. Because I did apoptosis and proliferation. Q. That's a those are different tests than you describe here?  MS. O'DELL: Object to the form. BY MR. HEGARTY: Q. Correct?	9 10 11 12 13 14 15 16 17 18 19 20 21	THE WITNESS: What you read is from here. That is what I wrote.  BY MR. HEGARTY:  Q. And you did not do the tests in Aim III?  MS. O'DELL: Object to the form, misrepresents what he just said.  BY MR. HEGARTY:  Q. Correct?  A. I just said, if you want okay. If you want, we can  MS. O'DELL: No, just be clear.  THE WITNESS: spend more time.  I'm very clear.  MS. O'DELL: Be clear in your
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. I proposed to do, but I didn't do. It's just a proposal.  Q. Right. You did not do any test to directly look at neoplastic transformation of normal epithelial cells, correct?  A. Not correct. Q. How is that not correct? A. Because I did apoptosis and proliferation. Q. That's a those are different tests than you describe here?  MS. O'DELL: Object to the form.  BY MR. HEGARTY: Q. Correct?  MS. O'DELL: Object to the form.	9 10 11 12 13 14 15 16 17 18 19 20 21 22	THE WITNESS: What you read is from here. That is what I wrote.  BY MR. HEGARTY:  Q. And you did not do the tests in Aim III?  MS. O'DELL: Object to the form, misrepresents what he just said.  BY MR. HEGARTY:  Q. Correct?  A. I just said, if you want okay. If you want, we can  MS. O'DELL: No, just be clear.  THE WITNESS: spend more time.  I'm very clear. I'm very clear.  MS. O'DELL: Be clear in your testimony. Excuse me, Doctor. He's asked you a very

	Page 511		Page 513
1	MS. O'DELL: your tests are that	1	A. What page is that?
2	you performed.	2	Q. Same Aim III we've been long at.
3	MR. HEGARTY: Well, it's not very	3	A. 27? Are you talking about 27?
4	confusing. It's only very confusing to the doctor	4	Q. Yes.
5	because he obviously doesn't want to answer.	5	A. Reference 27. Okay.
6	THE WITNESS: No, no, not at all.	6	Q. Did you perform a neoplastic transformation
7	Not at all.	7	assay for purpose of your manuscript?
8	MS. O'DELL: That's that's really	8	A. Where is 27. One more time, please.
9	improper, and	9	Q. You described in this aim utilizing a
10	THE WITNESS: I I would really	10	neoplastic transformation assay, correct?
11	answer any question you want me to answer.	11	A. Yes.
12	MS. O'DELL: Fine.	12	Q. Did you perform that assay for purposes of
13	THE WITNESS: Ask me, please, any	13	your manuscript?
14	questions you want. What I'm trying to say, I don't	14	A. No.
15	want to answer something I don't understand. I'm	15	Q. Turn over to the last page or second to
16	trying to ask you simple question, can you clarify your	16	last page, which is Phase II. Do you see that?
17	question, say what tests you are referring to. So that	17	A. Phase II. General Methods.
18	is very simple question. You're asking me what	18	Q. Phase II. Phase II will be the
19	tests	19	S-nitrosylation of caspase-3 assay/apoptosis. Do you
20	BY MR. HEGARTY:	20	see that?
21	Q. I agree.	21	A. I do.
22	A I wanted to do. I'm asking you what you	22	Q. Did you do that test?
23	are the tests you are looking you are talking about.	23	A. I did the S the caspase-3
24	Q. I agree, my questions have been very simple.	24	assay/apoptosis, yes.
25	Doctor, did you did not perform the tests described in	25	Q. Did you do the did you do the
	Page 512		Page 514
1	Aim III, correct? That was the question.	1	S-nitrosylation?
2	MS. O'DELL: Object to the form.	2	MS. O'DELL: Objection.
3	THE WITNESS: I did not perform all	3	BY MR. HEGARTY:
4	the tests here. I performed part of it, which is	4	Q. Did you do the S-nitrosylation of caspase-3?
5	apoptosis part.	5	A. No. We did the caspase-3 activity.
6	BY MR. HEGARTY:	6	Q. Why did you not do the S-nitrosylation of
7	Q. Using the test method you describe in	7	caspase-3?
8	Aim III?	8	A. You want to do the S-nitrosylation of
9	MS. O'DELL: Object to the form.	9	caspase-3 if you want to know the mechanism by
10	THE WITNESS: What test method? You	10	which caspase-3 is nitrosylated, and since we are not
11	see, that's where my concern is, what test method	11	doing the transformation, we're just doing it with
12	you're talking about.	12	immortalized cell lines to figure out if talc has an
13	BY MR. HEGARTY:	13	effect or not, then we just did the activity of
14	Q. The test method involving suspending cells	14	caspase-3. S-nitrosylation of caspase-3 affect
15	in agar.	15	caspase-3 activity, so it's an incorrect method.
16	A. That's not a test method.	16 17	MR. HEGARTY: Let's take a quick
17	Q. What is it?	17 18	break.
18 19	A. That's a culture. We treat that's not a treatment. This is where you put cells this culture.	18 19	THE VIDEOGRAPHER: We're going off the record, the time is 12:08.
20	Q. Did you do that for purposes of your	20	(There was a recess taken.)
21	manuscript?	21	THE VIDEOGRAPHER: We're back on the
22	A. No.	22	record at 12:26.
23	Q. There's a reference at the in the third	23	DEPOSITION EXHIBIT 45
24	line down to utilizing a neoplastic transformation	24	Form B
25	assay.	25	WAS MARKED BY THE REPORTER

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1	FOR IDENTIFICATION	1	THE WITNESS: I don't understand the
2	BY MR. HEGARTY:	2	question.
3	Q. I've marked next as Exhibit 45 a copy of	3	BY MR. HEGARTY:
4	a document we were provided by Plaintiffs' counsel	4	Q. Well, shouldn't you describe under Agency
5	last week that has Form B at the top. Doctor, what is	5	the entity for whom you're consulting?
6	Form B?	6	A. Not necessarily.
7	A. This is the disclosure of consulting for	7	Q. Well, you're not you're in this for
8	Wayne State University for faculty.	8	this litigation, you're consulting with Beasley Allen,
9	Q. This is a form you prepared?	9	correct?
10	A. This is the form they give us to fill out.	10	A. Correct.
11	Q. You filled out Exhibit 45?	11	Q. Why didn't you identify Beasley Allen under
12	A. I did.	12	Agency?
13	Q. You reported in Exhibit 45 for 2018 your	13	A. Unnecessary to do because the consultation
14	consultation work at four hours every Friday; is that	14	with Beasley Allen were done was done under the DS Biotech.
15	correct?	15 16	
16 17	Correct.     Does that accurately describe the amount of	17	Q. Some of the consulting that you did for Beasley Allen was during the week, though, correct,
18	time and when you spent that time consulting in 2018?	18	during that half day a week?
19	MS. O'DELL: Object to the form.	19	A. Friday, yes. I'm allowed to do half a day a
20	THE WITNESS: No. So this is only	20	week.
21	included the consultation we have half a day a week,	21	Q. Your interpretation of the word agency would
22	from 9:00 to 5:00 during business hours, 9:00 to	22	be to identify your company that you consult with as
23	5:00	23	opposed to who you're consulting with?
24	MS. O'DELL: Excuse me.	24	A. That's what I was advised to do by Faculty
25	THE WITNESS: Monday through	25	Affair.
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1	Friday. After hours, after 5:00, weekends are not	1	Q. Who advised you to do that?
2	included here. This is just the official time of the	2	A. Faculty Affair.
3	university.	3	Q. Who is that?
4	BY MR. HEGARTY:	4	A. You have the e-mail right there.
5	Q. So what you list here is every Friday	5	Q. Okay. We'll jump to that e-mail.
6	between 9:00 and 5:00 you've averaged four hours of	6	DEPOSITION EXHIBIT 46
7	consultation?	7	E-Mail with Advice Regarding Form B
8	A. I have	8	WAS MARKED BY THE REPORTER
9	MS. O'DELL: Object to the form.	9	FOR IDENTIFICATION
10	THE WITNESS: I have half a day	10	BY MR. HEGARTY:
11 12	deducted from my 9:00 to 5:00 obligation to the	11 12	Q. I've marked as Exhibit 46 the e-mail the doctor pointed in follow-up to or in connection with
13	university. And then BY MR. HEGARTY:	13	an answer he gave to a question as far as how he was
13	Q. And as I'm sorry.	14	an answer ne gave to a question as far as now ne was advised to fill out Form B. Can you tell me about that
15	A I can work extra.	15	advice as as it pertains to Exhibit 46?
16	Q. You don't have to report that working extra?	16	A. Yes. That's what I consulted with them,
17	A. To the university?	17	that I I did not need to itemize what companies
18	Q. To the university?	18	under the DS Biotech I consulted with. They don't
19	A. No.	19	care. They just want DS Biotech.
20	Q. When you say description of consulting	20	Q. The person you spoke with was the person who
21	owner, what does that mean?	21	sent you this e-mail, Kate Laimbeer?
22	A. The owner of the DS Biotech.	22	A. Correct.
23	Q. Does the agency, though, refer to who you're	23	Q. This notes that you had this phone call
24	consulting for?	24	or strike that. This e-mail, as reflected in
25	MS. O'DELL: Object to the form.	25	Exhibit 46, is dated February 8, 2019; is that correct?

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1	A. It says so, yes.	1	Exhibit 47, you listed
2	Q. Did you have such a discussion with anyone	2	MS. O'DELL: I'm sorry, Mark. When
3	before the February 2019 time period about how to fill	3	you say a hundred hours of work, which two invoices did
4	out this form?	4	you or which invoices
5	A. No. It's after my previous deposition that	5	MR. HEGARTY: I'm adding up
6	we were talking about conflict of interest, I wanted to	6	invoice the first one, the second one, and the third
7	make sure that I'm doing the right thing. I called	7	one in
8	them again, and I discussed with them, and they said I	8	MS. O'DELL: What are the dates on
9	was what I was doing is perfectly all right.	9	them, or the invoice numbers?
10	DEPOSITION EXHIBIT 47	10	THE WITNESS: The third one is
11	Form B for Calendar Year 2017	11	January.
12	WAS MARKED BY THE REPORTER	12	MR. HEGARTY: They are
13	FOR IDENTIFICATION	13	THE WITNESS: 22 and 17.
14	BY MR. HEGARTY:	14	MR. HEGARTY: I don't see invoice
15	Q. I've next marked as Exhibit 47	15	numbers on them.
16	MS. O'DELL: Thank you.	16	THE WITNESS: 64.
17	BY MR. HEGARTY:	17	MS. O'DELL: I think they're in the
18	Q the Form B for calendar year 2017; is	18	right corner invoice number, and it's you said a
19	that correct?	19	hundred hours.
20	A. Correct.	20	MR. HEGARTY: Invoice number, right.
21	Q. This again was a form that you filled out,	21	MS. O'DELL: You said a hundred
22	right?	22	hours, and they're not a hundred hours that were billed
23	A. Correct.	23	for in 2017.
24	Q. On this form, you describe under the heading	24	THE WITNESS: 64 hours was billed on
25	Date, two hours Saturday, and under hours you list	25	2017.
	Page 520		Page 522
1	Page 520 10:00 a.m. to 12 noon. Do you see that?	1	BY MR. HEGARTY:
1 2	10:00 a.m. to 12 noon. Do you see that?  A. I do.	1 2	BY MR. HEGARTY:  Q. You have for an invoice dated 1-25-2018,
	10:00 a.m. to 12 noon. Do you see that?  A. I do. Q. We just talked about a form, the Form B		BY MR. HEGARTY:  Q. You have for an invoice dated 1-25-2018, 58 hours?
2	10:00 a.m. to 12 noon. Do you see that?  A. I do.  Q. We just talked about a form, the Form B before where you said that you needed to only list	2	BY MR. HEGARTY: Q. You have for an invoice dated 1-25-2018, 58 hours? A. What date is that?
2	10:00 a.m. to 12 noon. Do you see that?  A. I do. Q. We just talked about a form, the Form B before where you said that you needed to only list consulting activity that you were doing during the	2 3 4 5	BY MR. HEGARTY: Q. You have for an invoice dated 1-25-2018, 58 hours? A. What date is that? Q. That is invoice 10 10025.
2 3 4 5 6	10:00 a.m. to 12 noon. Do you see that?  A. I do.  Q. We just talked about a form, the Form B before where you said that you needed to only list consulting activity that you were doing during the week. Did that did the process or procedure	2 3 4 5 6	BY MR. HEGARTY: Q. You have for an invoice dated 1-25-2018, 58 hours? A. What date is that? Q. That is invoice 10 10025. A. That's January.
2 3 4 5 6 7	10:00 a.m. to 12 noon. Do you see that?  A. I do. Q. We just talked about a form, the Form B before where you said that you needed to only list consulting activity that you were doing during the week. Did that did the process or procedure change?	2 3 4 5 6 7	BY MR. HEGARTY: Q. You have for an invoice dated 1-25-2018, 58 hours? A. What date is that? Q. That is invoice 10 10025. A. That's January. Q. January. So did you bill
2 3 4 5 6 7 8	10:00 a.m. to 12 noon. Do you see that?  A. I do. Q. We just talked about a form, the Form B before where you said that you needed to only list consulting activity that you were doing during the week. Did that did the process or procedure change?  A. No. This is 2017, and it's supposed to be a	2 3 4 5 6 7 8	BY MR. HEGARTY:  Q. You have for an invoice dated 1-25-2018, 58 hours?  A. What date is that?  Q. That is invoice 10 10025.  A. That's January.  Q. January. So did you bill  A. That's the following year.
2 3 4 5 6 7 8	10:00 a.m. to 12 noon. Do you see that?  A. I do.  Q. We just talked about a form, the Form B before where you said that you needed to only list consulting activity that you were doing during the week. Did that did the process or procedure change?  A. No. This is 2017, and it's supposed to be a Friday.	2 3 4 5 6 7 8 9	BY MR. HEGARTY:  Q. You have for an invoice dated 1-25-2018, 58 hours?  A. What date is that?  Q. That is invoice 10 10025.  A. That's January.  Q. January. So did you bill  A. That's the following year.  Q. So your invoice in January of 2018 was
2 3 4 5 6 7 8 9	10:00 a.m. to 12 noon. Do you see that?  A. I do.  Q. We just talked about a form, the Form B before where you said that you needed to only list consulting activity that you were doing during the week. Did that did the process or procedure change?  A. No. This is 2017, and it's supposed to be a Friday.  Q. The date is supposed to be a Friday?	2 3 4 5 6 7 8 9	BY MR. HEGARTY:  Q. You have for an invoice dated 1-25-2018, 58 hours?  A. What date is that?  Q. That is invoice 10 10025.  A. That's January.  Q. January. So did you bill  A. That's the following year.  Q. So your invoice in January of 2018 was 60 hours for that month?
2 3 4 5 6 7 8 9 10	A. I do. Q. We just talked about a form, the Form B before where you said that you needed to only list consulting activity that you were doing during the week. Did that did the process or procedure change? A. No. This is 2017, and it's supposed to be a Friday. Q. The date is supposed to be a Friday? A. Friday. That's my consultation time.	2 3 4 5 6 7 8 9 10	BY MR. HEGARTY:  Q. You have for an invoice dated 1-25-2018, 58 hours?  A. What date is that?  Q. That is invoice 10 10025.  A. That's January.  Q. January. So did you bill  A. That's the following year.  Q. So your invoice in January of 2018 was 60 hours for that month?  A. That's 25 days in January, yes.
2 3 4 5 6 7 8 9 10 11	A. I do. Q. We just talked about a form, the Form B before where you said that you needed to only list consulting activity that you were doing during the week. Did that did the process or procedure change? A. No. This is 2017, and it's supposed to be a Friday. Q. The date is supposed to be a Friday? A. Friday. That's my consultation time. Q. I'm going to show you from your last	2 3 4 5 6 7 8 9 10 11	BY MR. HEGARTY:  Q. You have for an invoice dated 1-25-2018, 58 hours?  A. What date is that?  Q. That is invoice 10 10025.  A. That's January.  Q. January. So did you bill  A. That's the following year.  Q. So your invoice in January of 2018 was 60 hours for that month?  A. That's 25 days in January, yes.  Q. That was that would be more than four
2 3 4 5 6 7 8 9 10 11 12	10:00 a.m. to 12 noon. Do you see that?  A. I do. Q. We just talked about a form, the Form B before where you said that you needed to only list consulting activity that you were doing during the week. Did that did the process or procedure change?  A. No. This is 2017, and it's supposed to be a Friday. Q. The date is supposed to be a Friday? A. Friday. That's my consultation time. Q. I'm going to show you from your last deposition Exhibit Number 4, which were your invoices	2 3 4 5 6 7 8 9 10 11 12	BY MR. HEGARTY:  Q. You have for an invoice dated 1-25-2018, 58 hours?  A. What date is that?  Q. That is invoice 10 10025.  A. That's January.  Q. January. So did you bill  A. That's the following year.  Q. So your invoice in January of 2018 was 60 hours for that month?  A. That's 25 days in January, yes.  Q. That was that would be more than four hours a week, right?
2 3 4 5 6 7 8 9 10 11 12 13	10:00 a.m. to 12 noon. Do you see that?  A. I do. Q. We just talked about a form, the Form B before where you said that you needed to only list consulting activity that you were doing during the week. Did that did the process or procedure change?  A. No. This is 2017, and it's supposed to be a Friday. Q. The date is supposed to be a Friday? A. Friday. That's my consultation time. Q. I'm going to show you from your last deposition Exhibit Number 4, which were your invoices that were provided at your deposition, and this exhibit	2 3 4 5 6 7 8 9 10 11 12 13	BY MR. HEGARTY:  Q. You have for an invoice dated 1-25-2018, 58 hours?  A. What date is that?  Q. That is invoice 10 10025.  A. That's January.  Q. January. So did you bill  A. That's the following year.  Q. So your invoice in January of 2018 was 60 hours for that month?  A. That's 25 days in January, yes.  Q. That was that would be more than four hours a week, right?  A. Again okay. The consultation time is
2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. I do. Q. We just talked about a form, the Form B before where you said that you needed to only list consulting activity that you were doing during the week. Did that did the process or procedure change? A. No. This is 2017, and it's supposed to be a Friday. Q. The date is supposed to be a Friday? A. Friday. That's my consultation time. Q. I'm going to show you from your last deposition Exhibit Number 4, which were your invoices that were provided at your deposition, and this exhibit shows that you started consulting with Beasley Allen	2 3 4 5 6 7 8 9 10 11 12 13 14	BY MR. HEGARTY:  Q. You have for an invoice dated 1-25-2018, 58 hours?  A. What date is that? Q. That is invoice 10 10025. A. That's January. Q. January. So did you bill A. That's the following year. Q. So your invoice in January of 2018 was 60 hours for that month? A. That's 25 days in January, yes. Q. That was that would be more than four hours a week, right?  A. Again okay. The consultation time is four hours from 9:00 to 5:00 my work, but I can work
2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. I do. Q. We just talked about a form, the Form B before where you said that you needed to only list consulting activity that you were doing during the week. Did that did the process or procedure change? A. No. This is 2017, and it's supposed to be a Friday. Q. The date is supposed to be a Friday? A. Friday. That's my consultation time. Q. I'm going to show you from your last deposition Exhibit Number 4, which were your invoices that were provided at your deposition, and this exhibit shows that you started consulting with Beasley Allen for which you were invoicing them beginning in the	2 3 4 5 6 7 8 9 10 11 12 13 14 15	BY MR. HEGARTY:  Q. You have for an invoice dated 1-25-2018, 58 hours?  A. What date is that? Q. That is invoice 10 10025.  A. That's January. Q. January. So did you bill A. That's the following year. Q. So your invoice in January of 2018 was 60 hours for that month?  A. That's 25 days in January, yes. Q. That was that would be more than four hours a week, right?  A. Again okay. The consultation time is four hours from 9:00 to 5:00 my work, but I can work from 5:00 to 9:00 every day, I can work with weekends.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. I do. Q. We just talked about a form, the Form B before where you said that you needed to only list consulting activity that you were doing during the week. Did that did the process or procedure change? A. No. This is 2017, and it's supposed to be a Friday. Q. The date is supposed to be a Friday? A. Friday. That's my consultation time. Q. I'm going to show you from your last deposition Exhibit Number 4, which were your invoices that were provided at your deposition, and this exhibit shows that you started consulting with Beasley Allen for which you were invoicing them beginning in the October/September time frame through the end of the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	BY MR. HEGARTY:  Q. You have for an invoice dated 1-25-2018, 58 hours?  A. What date is that? Q. That is invoice 10 10025. A. That's January. Q. January. So did you bill A. That's the following year. Q. So your invoice in January of 2018 was 60 hours for that month?  A. That's 25 days in January, yes. Q. That was that would be more than four hours a week, right?  A. Again okay. The consultation time is four hours from 9:00 to 5:00 my work, but I can work from 5:00 to 9:00 every day, I can work with weekends. I can work, work, work.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. I do. Q. We just talked about a form, the Form B before where you said that you needed to only list consulting activity that you were doing during the week. Did that did the process or procedure change? A. No. This is 2017, and it's supposed to be a Friday. Q. The date is supposed to be a Friday? A. Friday. That's my consultation time. Q. I'm going to show you from your last deposition Exhibit Number 4, which were your invoices that were provided at your deposition, and this exhibit shows that you started consulting with Beasley Allen for which you were invoicing them beginning in the October/September time frame through the end of the year. Do you see that?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	BY MR. HEGARTY:  Q. You have for an invoice dated 1-25-2018, 58 hours?  A. What date is that? Q. That is invoice 10 10025. A. That's January. Q. January. So did you bill A. That's the following year. Q. So your invoice in January of 2018 was 60 hours for that month? A. That's 25 days in January, yes. Q. That was that would be more than four hours a week, right?  A. Again okay. The consultation time is four hours from 9:00 to 5:00 my work, but I can work from 5:00 to 9:00 every day, I can work with weekends. I can work, work, work.  DEPOSITION EXHIBIT 48
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. I do. Q. We just talked about a form, the Form B before where you said that you needed to only list consulting activity that you were doing during the week. Did that did the process or procedure change? A. No. This is 2017, and it's supposed to be a Friday. Q. The date is supposed to be a Friday? A. Friday. That's my consultation time. Q. I'm going to show you from your last deposition Exhibit Number 4, which were your invoices that were provided at your deposition, and this exhibit shows that you started consulting with Beasley Allen for which you were invoicing them beginning in the October/September time frame through the end of the year. Do you see that? A. I do.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	BY MR. HEGARTY:  Q. You have for an invoice dated 1-25-2018, 58 hours?  A. What date is that? Q. That is invoice 10 10025. A. That's January. Q. January. So did you bill A. That's the following year. Q. So your invoice in January of 2018 was 60 hours for that month? A. That's 25 days in January, yes. Q. That was that would be more than four hours a week, right? A. Again okay. The consultation time is four hours from 9:00 to 5:00 my work, but I can work from 5:00 to 9:00 every day, I can work with weekends. I can work, work, work.  DEPOSITION EXHIBIT 48 E-Mail Dated February 7, 2019
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. I do. Q. We just talked about a form, the Form B before where you said that you needed to only list consulting activity that you were doing during the week. Did that did the process or procedure change? A. No. This is 2017, and it's supposed to be a Friday. Q. The date is supposed to be a Friday? A. Friday. That's my consultation time. Q. I'm going to show you from your last deposition Exhibit Number 4, which were your invoices that were provided at your deposition, and this exhibit shows that you started consulting with Beasley Allen for which you were invoicing them beginning in the October/September time frame through the end of the year. Do you see that? A. I do. Q. If you look at those invoices for the 2017	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	BY MR. HEGARTY:  Q. You have for an invoice dated 1-25-2018, 58 hours?  A. What date is that? Q. That is invoice 10 10025. A. That's January. Q. January. So did you bill A. That's the following year. Q. So your invoice in January of 2018 was 60 hours for that month? A. That's 25 days in January, yes. Q. That was that would be more than four hours a week, right?  A. Again okay. The consultation time is four hours from 9:00 to 5:00 my work, but I can work from 5:00 to 9:00 every day, I can work with weekends. I can work, work, work.  DEPOSITION EXHIBIT 48 E-Mail Dated February 7, 2019 WAS MARKED BY THE REPORTER
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. I do. Q. We just talked about a form, the Form B before where you said that you needed to only list consulting activity that you were doing during the week. Did that did the process or procedure change? A. No. This is 2017, and it's supposed to be a Friday. Q. The date is supposed to be a Friday? A. Friday. That's my consultation time. Q. I'm going to show you from your last deposition Exhibit Number 4, which were your invoices that were provided at your deposition, and this exhibit shows that you started consulting with Beasley Allen for which you were invoicing them beginning in the October/September time frame through the end of the year. Do you see that? A. I do. Q. If you look at those invoices for the 2017 time frame and and you do the math, at least the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	BY MR. HEGARTY:  Q. You have for an invoice dated 1-25-2018, 58 hours?  A. What date is that? Q. That is invoice 10 10025. A. That's January. Q. January. So did you bill A. That's the following year. Q. So your invoice in January of 2018 was 60 hours for that month? A. That's 25 days in January, yes. Q. That was that would be more than four hours a week, right?  A. Again okay. The consultation time is four hours from 9:00 to 5:00 my work, but I can work from 5:00 to 9:00 every day, I can work with weekends. I can work, work, work.  DEPOSITION EXHIBIT 48 E-Mail Dated February 7, 2019 WAS MARKED BY THE REPORTER FOR IDENTIFICATION
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. I do. Q. We just talked about a form, the Form B before where you said that you needed to only list consulting activity that you were doing during the week. Did that did the process or procedure change? A. No. This is 2017, and it's supposed to be a Friday. Q. The date is supposed to be a Friday? A. Friday. That's my consultation time. Q. I'm going to show you from your last deposition Exhibit Number 4, which were your invoices that were provided at your deposition, and this exhibit shows that you started consulting with Beasley Allen for which you were invoicing them beginning in the October/September time frame through the end of the year. Do you see that? A. I do. Q. If you look at those invoices for the 2017 time frame and and you do the math, at least the math I did, it comes out to be about a hundred hours of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	BY MR. HEGARTY:  Q. You have for an invoice dated 1-25-2018, 58 hours?  A. What date is that? Q. That is invoice 10 10025. A. That's January. Q. January. So did you bill A. That's the following year. Q. So your invoice in January of 2018 was 60 hours for that month? A. That's 25 days in January, yes. Q. That was that would be more than four hours a week, right?  A. Again okay. The consultation time is four hours from 9:00 to 5:00 my work, but I can work from 5:00 to 9:00 every day, I can work with weekends. I can work, work, work.  DEPOSITION EXHIBIT 48 E-Mail Dated February 7, 2019  WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY:
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. I do. Q. We just talked about a form, the Form B before where you said that you needed to only list consulting activity that you were doing during the week. Did that did the process or procedure change? A. No. This is 2017, and it's supposed to be a Friday. Q. The date is supposed to be a Friday? A. Friday. That's my consultation time. Q. I'm going to show you from your last deposition Exhibit Number 4, which were your invoices that were provided at your deposition, and this exhibit shows that you started consulting with Beasley Allen for which you were invoicing them beginning in the October/September time frame through the end of the year. Do you see that? A. I do. Q. If you look at those invoices for the 2017 time frame and and you do the math, at least the math I did, it comes out to be about a hundred hours of work.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	BY MR. HEGARTY:  Q. You have for an invoice dated 1-25-2018, 58 hours?  A. What date is that? Q. That is invoice 10 10025. A. That's January. Q. January. So did you bill A. That's the following year. Q. So your invoice in January of 2018 was 60 hours for that month? A. That's 25 days in January, yes. Q. That was that would be more than four hours a week, right?  A. Again okay. The consultation time is four hours from 9:00 to 5:00 my work, but I can work from 5:00 to 9:00 every day, I can work with weekends. I can work, work, work.  DEPOSITION EXHIBIT 48 E-Mail Dated February 7, 2019  WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I've marked next as Exhibit 48 an e-mail
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	A. I do. Q. We just talked about a form, the Form B before where you said that you needed to only list consulting activity that you were doing during the week. Did that did the process or procedure change? A. No. This is 2017, and it's supposed to be a Friday. Q. The date is supposed to be a Friday? A. Friday. That's my consultation time. Q. I'm going to show you from your last deposition Exhibit Number 4, which were your invoices that were provided at your deposition, and this exhibit shows that you started consulting with Beasley Allen for which you were invoicing them beginning in the October/September time frame through the end of the year. Do you see that? A. I do. Q. If you look at those invoices for the 2017 time frame and and you do the math, at least the math I did, it comes out to be about a hundred hours of work. A. Okay.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	BY MR. HEGARTY:  Q. You have for an invoice dated 1-25-2018, 58 hours?  A. What date is that? Q. That is invoice 10 10025. A. That's January. Q. January. So did you bill A. That's the following year. Q. So your invoice in January of 2018 was 60 hours for that month? A. That's 25 days in January, yes. Q. That was that would be more than four hours a week, right?  A. Again okay. The consultation time is four hours from 9:00 to 5:00 my work, but I can work from 5:00 to 9:00 every day, I can work with weekends. I can work, work, work.  DEPOSITION EXHIBIT 48 E-Mail Dated February 7, 2019 WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I've marked next as Exhibit 48 an e-mail dated February 7, 2019 regarding publishing of your
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. I do. Q. We just talked about a form, the Form B before where you said that you needed to only list consulting activity that you were doing during the week. Did that did the process or procedure change? A. No. This is 2017, and it's supposed to be a Friday. Q. The date is supposed to be a Friday? A. Friday. That's my consultation time. Q. I'm going to show you from your last deposition Exhibit Number 4, which were your invoices that were provided at your deposition, and this exhibit shows that you started consulting with Beasley Allen for which you were invoicing them beginning in the October/September time frame through the end of the year. Do you see that? A. I do. Q. If you look at those invoices for the 2017 time frame and and you do the math, at least the math I did, it comes out to be about a hundred hours of work.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	BY MR. HEGARTY:  Q. You have for an invoice dated 1-25-2018, 58 hours?  A. What date is that? Q. That is invoice 10 10025. A. That's January. Q. January. So did you bill A. That's the following year. Q. So your invoice in January of 2018 was 60 hours for that month? A. That's 25 days in January, yes. Q. That was that would be more than four hours a week, right?  A. Again okay. The consultation time is four hours from 9:00 to 5:00 my work, but I can work from 5:00 to 9:00 every day, I can work with weekends. I can work, work, work.  DEPOSITION EXHIBIT 48 E-Mail Dated February 7, 2019  WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I've marked next as Exhibit 48 an e-mail

	Page 523		Page 525
1	A. The SRI?	1	A. The Genome-Wide Association Study.
2	Q. From SRI; is that right?	2	Q. Have you ever gone to the website and used
3	MS. O'DELL: Object to the form.	3	the search tool for the catalog?
4	THE WITNESS: This is from SAGE, the	4	A. I did.
5	proof the proofreading.	5	Q. Have you done it in the last four or five
6	BY MR. HEGARTY:	6	weeks?
7	Q. This is in connection with your manuscript	7	A. I did it yesterday.
8	being published, correct?	8	Q. Why did you do it yesterday?
9	A. Yes, the SRI manuscript.	9	A. Because I wanted to look for new information
10	Q. Have you had any further communications with	10	about the risk of ovarian cancer with our markers, if
11	Reproductive Sciences or SAGE about your manuscript	11	there is any updates.
12	since February 7, 2019?	12	Q. So what searches did you do on the GWAS
13	A. No.	13	catalog?
14	DEPOSITION EXHIBIT 49	14	A. If you go to NCBI website what search,
15	E-Mail Forwarded by Amy Harper on	15	ovarian ovarian oxidative stress and increased
16	February 11, 2019	16	ovarian cancer risk.
17	WAS MARKED BY THE REPORTER	17	Q. And I asked you what search because it
18	FOR IDENTIFICATION	18	actually gives you a box you can type search terms
19	BY MR. HEGARTY:	19	into, correct?
20	Q. I've next marked as Exhibit 49 an e-mail	20	A. They do, yes.
21	that was forwarded to you by Amy Harper on February 11,	21	Q. And what you just listed were the search
22	2019.	22	terms you typed in?
23	A. Correct.	23	A. Oxidative stress, risk of ovarian cancer.
24	Q. She's forwarding you that e-mail, an e-mail	24	Q. Did you print off the results?
25	from Reproductive Sciences dated October 10, 2018; is	25	A. No.
	Page 524		Page 526
1	Page 524 that correct?	1	Q. Did you also do a search for any of the SNPs
1 2	that correct?  A. Correct.	2	Q. Did you also do a search for any of the SNPs that you reported on in your manuscript?
	that correct?  A. Correct.  Q. How did the how did the forwarding of	2 3	Q. Did you also do a search for any of the SNPs that you reported on in your manuscript?  A. In the GWAS?
2	that correct?  A. Correct.  Q. How did the how did the forwarding of this e-mail come about?	2 3 4	<ul><li>Q. Did you also do a search for any of the SNPs that you reported on in your manuscript?</li><li>A. In the GWAS?</li><li>Q. Correct, in the GWAS catalog.</li></ul>
2 3 4 5	that correct?  A. Correct.  Q. How did the how did the forwarding of this e-mail come about?  A. I asked her to forward me the this	2 3 4 5	<ul> <li>Q. Did you also do a search for any of the SNPs that you reported on in your manuscript?</li> <li>A. In the GWAS?</li> <li>Q. Correct, in the GWAS catalog.</li> <li>MS. O'DELL: Doctor, before you</li> </ul>
2 3 4 5 6	that correct?  A. Correct.  Q. How did the how did the forwarding of this e-mail come about?  A. I asked her to forward me the this letter?	2 3 4 5 6	<ul> <li>Q. Did you also do a search for any of the SNPs that you reported on in your manuscript?</li> <li>A. In the GWAS?</li> <li>Q. Correct, in the GWAS catalog. MS. O'DELL: Doctor, before you answer the question, I would just object to the</li> </ul>
2 3 4 5 6 7	that correct?  A. Correct.  Q. How did the how did the forwarding of this e-mail come about?  A. I asked her to forward me the this letter?  Q. Why did you ask her to forward you this	2 3 4 5 6 7	Q. Did you also do a search for any of the SNPs that you reported on in your manuscript?  A. In the GWAS? Q. Correct, in the GWAS catalog.  MS. O'DELL: Doctor, before you answer the question, I would just object to the question to the extent that Ms. Sharko conveyed in a
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	Page 527		Page 529
1	MS. O'DELL: I think you are. I'm	1	A. Maybe.
2	just putting you on notice that that was the	2	Q. Well, do you read it any differently than I
3	representation.	3	did, I just described?
4	MR. HEGARTY: I don't disagree	4	A. No. What I'm saying is it doesn't have to
5	that's the representation, but I do disagree with your	5	be reported here. So the SNP is already known, and
6	contention that I'm replowing old ground.	6	it's been reported, published. It's not in the GWAS.
7	MS. O'DELL: I think you are, but	7	Q. This catalog, though, lists lists those
8	MR. HEGARTY: You can do what you	8	SNPs that have achieved genome-wide significance for
9	want to do then.	9	whatever particular risk they're you're looking at,
10	BY MR. HEGARTY:	10	correct?
11	Q. Doctor, my question was, did you put into	11	A. What risk you're looking at here.
12	the GWAS catalog search any of the SNPs you looked at,	12	MS. O'DELL: Object excuse me.
13	catalase, MPO, GSR? Did you do those searches?	13	Object to the form.
14	A. Not recently.	14	BY MR. HEGARTY:
15	MS. O'DELL: Object to form.	15	Q. This printout is just of a search of MPO and
16	BY MR. HEGARTY:	16	what significance it is achieved in terms of the
17	Q. You didn't do that yesterday?	17	studies, correct?
18	A. No.	18	A. No.
19	Q. Did you do any other searches yesterday	19	MS. O'DELL: Object to the form.
20	using the GWAS catalog besides those you talked about?	20	THE WITNESS: Not correct.
21	A. No.	21	BY MR. HEGARTY:
22	Q. Did you do any other searches strike	22	Q. What did I say that was not correct?
23	that. Did you do that search in preparation for	23	A. So what you need to do, the GWAS do you
24	today's deposition?	24	want me to explain how it works?
25	A. No.	25	Q. Sure.
	Page 528		Page 530
1		1	
1 2	Q. Okay. Why did you	1 2	A. 'Cause that's not how you do it.
	<ul><li>Q. Okay. Why did you</li><li>A. Most of the times I do this. Frequently.</li></ul>		<ul><li>A. 'Cause that's not how you do it.</li><li>Q. All right. Explain it to me.</li></ul>
2	<ul><li>Q. Okay. Why did you</li><li>A. Most of the times I do this. Frequently.</li><li>Q. So that's a catalog you frequently search?</li></ul>	2	<ul><li>A. 'Cause that's not how you do it.</li><li>Q. All right. Explain it to me.</li><li>A. Okay. GWAS, they compare they take DNA</li></ul>
2	<ul> <li>Q. Okay. Why did you</li> <li>A. Most of the times I do this. Frequently.</li> <li>Q. So that's a catalog you frequently search?</li> <li>A. Yes, I do.</li> </ul>	2	<ul><li>A. 'Cause that's not how you do it.</li><li>Q. All right. Explain it to me.</li></ul>
2 3 4	<ul><li>Q. Okay. Why did you</li><li>A. Most of the times I do this. Frequently.</li><li>Q. So that's a catalog you frequently search?</li></ul>	2 3 4	<ul> <li>A. 'Cause that's not how you do it.</li> <li>Q. All right. Explain it to me.</li> <li>A. Okay. GWAS, they compare they take DNA from normal patients, DNA from let's say I want to look at risk of ovarian cancer, from ovarian cancer</li> </ul>
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2 3 4 5 6 7 8	<ul> <li>Q. Okay. Why did you</li> <li>A. Most of the times I do this. Frequently.</li> <li>Q. So that's a catalog you frequently search?</li> <li>A. Yes, I do.</li> <li>Q. Is it an authoritative source for for you?</li> <li>A. Not necessarily, no.</li> <li>MS. O'DELL: Object to the form.</li> </ul>	2 3 4 5 6 7 8	A. 'Cause that's not how you do it. Q. All right. Explain it to me. A. Okay. GWAS, they compare they take DNA from normal patients, DNA from let's say I want to look at risk of ovarian cancer, from ovarian cancer patients, okay, and then they sequence the genome from group, the normal group and the patient group, and then they see which variance in these SNP in this genome
2 3 4 5 6 7 8	<ul> <li>Q. Okay. Why did you</li> <li>A. Most of the times I do this. Frequently.</li> <li>Q. So that's a catalog you frequently search?</li> <li>A. Yes, I do.</li> <li>Q. Is it an authoritative source for for you?</li> <li>A. Not necessarily, no.</li> <li>MS. O'DELL: Object to the form.</li> <li>DEPOSITION EXHIBIT 50</li> </ul>	2 3 4 5 6 7 8	A. 'Cause that's not how you do it. Q. All right. Explain it to me. A. Okay. GWAS, they compare they take DNA from normal patients, DNA from let's say I want to look at risk of ovarian cancer, from ovarian cancer patients, okay, and then they sequence the genome from group, the normal group and the patient group, and then they see which variance in these SNP in this genome that can be associated with this disease.
2 3 4 5 6 7 8 9	<ul> <li>Q. Okay. Why did you</li> <li>A. Most of the times I do this. Frequently.</li> <li>Q. So that's a catalog you frequently search?</li> <li>A. Yes, I do.</li> <li>Q. Is it an authoritative source for for you?</li> <li>A. Not necessarily, no.  MS. O'DELL: Object to the form.</li> <li>DEPOSITION EXHIBIT 50</li> <li>GWAS Catalog Search</li> </ul>	2 3 4 5 6 7 8 9	A. 'Cause that's not how you do it. Q. All right. Explain it to me. A. Okay. GWAS, they compare they take DNA from normal patients, DNA from let's say I want to look at risk of ovarian cancer, from ovarian cancer patients, okay, and then they sequence the genome from group, the normal group and the patient group, and then they see which variance in these SNP in this genome that can be associated with this disease.  So when you do the search, you have
2 3 4 5 6 7 8 9 10	<ul> <li>Q. Okay. Why did you</li> <li>A. Most of the times I do this. Frequently.</li> <li>Q. So that's a catalog you frequently search?</li> <li>A. Yes, I do.</li> <li>Q. Is it an authoritative source for for you?</li> <li>A. Not necessarily, no.  MS. O'DELL: Object to the form.</li> <li>DEPOSITION EXHIBIT 50</li> <li>GWAS Catalog Search</li> <li>WAS MARKED BY THE REPORTER</li> </ul>	2 3 4 5 6 7 8 9 10	A. 'Cause that's not how you do it. Q. All right. Explain it to me. A. Okay. GWAS, they compare they take DNA from normal patients, DNA from let's say I want to look at risk of ovarian cancer, from ovarian cancer patients, okay, and then they sequence the genome from group, the normal group and the patient group, and then they see which variance in these SNP in this genome that can be associated with this disease.  So when you do the search, you have to put both parameters, not just one. If you put just
2 3 4 5 6 7 8 9 10 11	<ul> <li>Q. Okay. Why did you</li> <li>A. Most of the times I do this. Frequently.</li> <li>Q. So that's a catalog you frequently search?</li> <li>A. Yes, I do.</li> <li>Q. Is it an authoritative source for for you?</li> <li>A. Not necessarily, no.  MS. O'DELL: Object to the form.</li> <li>DEPOSITION EXHIBIT 50</li> <li>GWAS Catalog Search</li> <li>WAS MARKED BY THE REPORTER</li> <li>FOR IDENTIFICATION</li> </ul>	2 3 4 5 6 7 8 9 10 11	A. 'Cause that's not how you do it. Q. All right. Explain it to me. A. Okay. GWAS, they compare they take DNA from normal patients, DNA from let's say I want to look at risk of ovarian cancer, from ovarian cancer patients, okay, and then they sequence the genome from group, the normal group and the patient group, and then they see which variance in these SNP in this genome that can be associated with this disease.  So when you do the search, you have to put both parameters, not just one. If you put just MPO, it's going to tell you everything that related to
2 3 4 5 6 7 8 9 10 11 12 13	<ul> <li>Q. Okay. Why did you</li> <li>A. Most of the times I do this. Frequently.</li> <li>Q. So that's a catalog you frequently search?</li> <li>A. Yes, I do.</li> <li>Q. Is it an authoritative source for for you?</li> <li>A. Not necessarily, no.  MS. O'DELL: Object to the form.</li> <li>DEPOSITION EXHIBIT 50</li> <li>GWAS Catalog Search WAS MARKED BY THE REPORTER FOR IDENTIFICATION</li> <li>BY MR. HEGARTY:</li> </ul>	2 3 4 5 6 7 8 9 10 11 12	A. 'Cause that's not how you do it.  Q. All right. Explain it to me.  A. Okay. GWAS, they compare they take DNA from normal patients, DNA from let's say I want to look at risk of ovarian cancer, from ovarian cancer patients, okay, and then they sequence the genome from group, the normal group and the patient group, and then they see which variance in these SNP in this genome that can be associated with this disease.  So when you do the search, you have to put both parameters, not just one. If you put just MPO, it's going to tell you everything that related to what, in relation to what disease. You need to put
2 3 4 5 6 7 8 9 10 11 12 13	<ul> <li>Q. Okay. Why did you</li> <li>A. Most of the times I do this. Frequently.</li> <li>Q. So that's a catalog you frequently search?</li> <li>A. Yes, I do.</li> <li>Q. Is it an authoritative source for for you?</li> <li>A. Not necessarily, no.  MS. O'DELL: Object to the form.  DEPOSITION EXHIBIT 50  GWAS Catalog Search  WAS MARKED BY THE REPORTER  FOR IDENTIFICATION  BY MR. HEGARTY:  Q. I'm going to show you what I've marked as</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13	A. 'Cause that's not how you do it. Q. All right. Explain it to me. A. Okay. GWAS, they compare they take DNA from normal patients, DNA from let's say I want to look at risk of ovarian cancer, from ovarian cancer patients, okay, and then they sequence the genome from group, the normal group and the patient group, and then they see which variance in these SNP in this genome that can be associated with this disease.  So when you do the search, you have to put both parameters, not just one. If you put just MPO, it's going to tell you everything that related to what, in relation to what disease. You need to put something next to it.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Okay. Why did you A. Most of the times I do this. Frequently. Q. So that's a catalog you frequently search? A. Yes, I do. Q. Is it an authoritative source for for you? A. Not necessarily, no. MS. O'DELL: Object to the form. DEPOSITION EXHIBIT 50 GWAS Catalog Search WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I'm going to show you what I've marked as Exhibit Number 50. This is a GWAS catalog search for MPO. MPO is one of the SNPs you looked at, correct, Doctor? A. Correct. Q. If you looks at results from that search, none of those results report any association with that MPO with ovarian cancer risk, correct?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. 'Cause that's not how you do it. Q. All right. Explain it to me. A. Okay. GWAS, they compare they take DNA from normal patients, DNA from let's say I want to look at risk of ovarian cancer, from ovarian cancer patients, okay, and then they sequence the genome from group, the normal group and the patient group, and then they see which variance in these SNP in this genome that can be associated with this disease.  So when you do the search, you have to put both parameters, not just one. If you put just MPO, it's going to tell you everything that related to what, in relation to what disease. You need to put something next to it. Q. So according to you, to determine whether MPO has reached genome-wide significance using the GWAS catalog, you have to put in MPO and ovarian cancer?  MS. O'DELL: Object to the form.  THE WITNESS: I didn't say that. I said the MPO that we use, the SNP that we use, okay, it is listed in GWAS, and the the it is minus four,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Okay. Why did you A. Most of the times I do this. Frequently. Q. So that's a catalog you frequently search? A. Yes, I do. Q. Is it an authoritative source for for you? A. Not necessarily, no. MS. O'DELL: Object to the form. DEPOSITION EXHIBIT 50 GWAS Catalog Search WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I'm going to show you what I've marked as Exhibit Number 50. This is a GWAS catalog search for MPO. MPO is one of the SNPs you looked at, correct, Doctor? A. Correct. Q. If you looks at results from that search, none of those results report any association with that MPO with ovarian cancer risk, correct? MS. O'DELL: Object to the form.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. 'Cause that's not how you do it. Q. All right. Explain it to me. A. Okay. GWAS, they compare they take DNA from normal patients, DNA from let's say I want to look at risk of ovarian cancer, from ovarian cancer patients, okay, and then they sequence the genome from group, the normal group and the patient group, and then they see which variance in these SNP in this genome that can be associated with this disease.  So when you do the search, you have to put both parameters, not just one. If you put just MPO, it's going to tell you everything that related to what, in relation to what disease. You need to put something next to it. Q. So according to you, to determine whether MPO has reached genome-wide significance using the GWAS catalog, you have to put in MPO and ovarian cancer?  MS. O'DELL: Object to the form.  THE WITNESS: I didn't say that. I said the MPO that we use, the SNP that we use, okay, it is listed in GWAS, and the the it is minus four, if I can recall correctly, 63
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>Q. Okay. Why did you</li> <li>A. Most of the times I do this. Frequently.</li> <li>Q. So that's a catalog you frequently search?</li> <li>A. Yes, I do.</li> <li>Q. Is it an authoritative source for for you?</li> <li>A. Not necessarily, no.  MS. O'DELL: Object to the form.</li> <li>DEPOSITION EXHIBIT 50</li> <li>GWAS Catalog Search WAS MARKED BY THE REPORTER FOR IDENTIFICATION</li> <li>BY MR. HEGARTY:  Q. I'm going to show you what I've marked as Exhibit Number 50. This is a GWAS catalog search for MPO. MPO is one of the SNPs you looked at, correct, Doctor?  A. Correct.  Q. If you looks at results from that search, none of those results report any association with that MPO with ovarian cancer risk, correct?  MS. O'DELL: Object to the form.  THE WITNESS: Here?</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. 'Cause that's not how you do it. Q. All right. Explain it to me. A. Okay. GWAS, they compare they take DNA from normal patients, DNA from let's say I want to look at risk of ovarian cancer, from ovarian cancer patients, okay, and then they sequence the genome from group, the normal group and the patient group, and then they see which variance in these SNP in this genome that can be associated with this disease.  So when you do the search, you have to put both parameters, not just one. If you put just MPO, it's going to tell you everything that related to what, in relation to what disease. You need to put something next to it. Q. So according to you, to determine whether MPO has reached genome-wide significance using the GWAS catalog, you have to put in MPO and ovarian cancer?  MS. O'DELL: Object to the form.  THE WITNESS: I didn't say that. I said the MPO that we use, the SNP that we use, okay, it is listed in GWAS, and the the it is minus four, if I can recall correctly, 63  MS. O'DELL: Feel free to look at

	Page 531		Page 533
1	and this has been	1	
1 2	MS. O'DELL: Don't don't be	1 2	maybe once or twice, I don't know. I can't remember.  Q. Have you had conversations with him beyond
3	precise.	3	more than those more than those once or twice
4	THE WITNESS: Minus where do I	4	meetings?
5	find it now, in my manuscript. Do you want to know	5	A. The last time I met him was two years ago,
6	which one exactly? Okay, where is the table?	6	over two years ago.
7	BY MR. HEGARTY:	7	Q. Have you ever had any manuscripts rejected
8	Q. Finish your answer.	8	by Reproductive Sciences?
9	A. Yeah, I'm trying to determine the exact.	9	A. Yes.
10	MS. O'DELL: If you need the table	10	Q. In the last when was the last time you
11	to finish your answer, Doctor	11	had a manuscript rejected?
12	THE WITNESS: Yeah, the exact	12	MS. O'DELL: Object to the form.
13	yeah. Okay. So here we go. So	13	THE WITNESS: When was the last time
14	BY MR. HEGARTY:	14	I had I can't remember. I really can't.
15	Q. What are you look at? What exhibit?	15	BY MR. HEGARTY:
16	A. I'm look at Exhibit 42. Where where is	16	Q. Since your deposition last month, have you
17	that. Where is my manuscript. I need my manuscript.	17	given any presentations to anyone at your university or
18	Hold on one second.	18	anyone in your profession regarding the results of your
19	I'm just trying to remember what	19	tests?
20	SNP number is going here, and it's not listed in in	20	A. Individuals?
21	the genome wide. But it has been published about,	21	Q. Individuals or groups.
22	that's what I'm trying to tell you. But it's not I	22	A. Agencies?
23	don't find it here. It's minus 463, I believe. But I	23	Q. Or agencies, anybody, since your last
24	can't find it.	24	deposition?
25	But what I'm trying to say is that	25	A. Yeah, Health Canada. I sent them an e-mail.
	Page 532		Page 534
1	there are SNPs that are reported in the GWAS for	1	Q. What are you
2	myeloperoxidase, like for example, this SNP that we	2	A. Telling them about my results. I have a
3	minus 463 that has been published upon that has been	3	paper in press that deals with the effect of talcum
4	associated with ovarian cancer. That's what I'm trying	4	powder on the induction of oxidative stress.
5	to say.	5	Q. When did you send an e-mail to Health
6	Q. Has that SNP achieved genome-wide	6	Canada?
7	significance?	7	A. Ten days ago maybe, a week. I can't
8	A. I don't know.	8	remember exactly.
10	Q. If you would find Exhibit 40, please.	9	Q. Who did you send it to?
10	A. 40?	10 11	A. I went to the website, there was an e-mail
11 12	<ul><li>Q. Four-oh.</li><li>A. 40. That's 50. Where is 40. 44, 43. Yes.</li></ul>	12	that they ask you if you want to report something, clicked on the e-mail, and sent it.
13	Q. Exhibit 40 is a correspondence from you to	13	Q. What did you send?
14	Dr. Layman, correct?	14	A. I just told you, I sent that I have paper,
15	A. Correct.	15	manuscript in press that shows the effect of talcum
	Q. Who is Dr. Layman?	16	powder on oxidative stress markers.
16 17		17	O. Do you still have a conv of what you sent to
16		17 18	Q. Do you still have a copy of what you sent to Health Canada?
16 17	A. He is the Chief Editor for Reproductive		Health Canada?
16 17 18	A. He is the Chief Editor for Reproductive Science.	18	
16 17 18 19	<ul><li>A. He is the Chief Editor for Reproductive</li><li>Science.</li><li>Q. Do you personally know Dr. Layman?</li></ul>	18 19	Health Canada? A. E-mail, you mean?
16 17 18 19 20	<ul> <li>A. He is the Chief Editor for Reproductive</li> <li>Science.</li> <li>Q. Do you personally know Dr. Layman?</li> <li>A. Do I personally know him, no.</li> </ul>	18 19 20	Health Canada?  A. E-mail, you mean?  Q. Yes.
16 17 18 19 20 21	<ul> <li>A. He is the Chief Editor for Reproductive</li> <li>Science.</li> <li>Q. Do you personally know Dr. Layman?</li> <li>A. Do I personally know him, no.</li> <li>Q. Have you ever met him?</li> </ul>	18 19 20 21	Health Canada?  A. E-mail, you mean?  Q. Yes.  A. I'm sure I can find my e-mail.
16 17 18 19 20 21	<ul> <li>A. He is the Chief Editor for Reproductive</li> <li>Science.</li> <li>Q. Do you personally know Dr. Layman?</li> <li>A. Do I personally know him, no.</li> <li>Q. Have you ever met him?</li> <li>A. I met him once. He comes to the society meeting.</li> <li>Q. You only met him once then, though?</li> </ul>	18 19 20 21 22	Health Canada? A. E-mail, you mean? Q. Yes. A. I'm sure I can find my e-mail. Q. Did you get a response?
16 17 18 19 20 21 22	<ul> <li>A. He is the Chief Editor for Reproductive</li> <li>Science.</li> <li>Q. Do you personally know Dr. Layman?</li> <li>A. Do I personally know him, no.</li> <li>Q. Have you ever met him?</li> <li>A. I met him once. He comes to the society meeting.</li> </ul>	18 19 20 21 22 23	Health Canada?  A. E-mail, you mean?  Q. Yes.  A. I'm sure I can find my e-mail.  Q. Did you get a response?  A. I got a response saying that I will be

	Page 535		Page 537
1	e-mail response?	1	presentation to anyone else about your test results or
2	A. Not yet.	2	your manuscript?
3	Q. Did you provide Health Canada with a copy of	3	A. No.
4	your manuscript?	4	Q. Have you sent strike that. Have you
5	A. No.	5	communicated with FDA with regard to the findings in
6	Q. What prompted you to contact that particular	6	your manuscript?
7	agency with regard to your manuscript?	7	A. No.
8	A. Because that particular agency announced	8	Q. Have you communicated with anyone at the
9	talcum powder as a risk factor for ovarian cancer.  Q. How did you become aware of that?	9 10	medical school for Wayne State regarding your
10 11	A. The media. It's everywhere.	11	manuscript or your test results?  A. No.
12	Q. When did you become aware of what	12	MS. O'DELL: Object to the form.
13	Health Canada had announced with regard to talc and	13	THE WITNESS: But no.
14	ovarian cancer?	14	MS. O'DELL: Other than the author.
15	A. I can't remember exactly.	15	BY MR. HEGARTY:
16	Q. Did you become aware of it before your	16	Q. Have you ever prepared
17	deposition last month?	17	A. Yes, thank you. Other than the authors.
18	A. Before.	18	MR. HEGARTY: Do you want to take a
19	Q. And what prompted you ten days ago, at that	19	microphone and answer for him?
20	point in time, to actually go on the website and then	20	MS. O'DELL: No. I'll just object.
21	send an e-mail?	21	MR. HEGARTY: Do you think that was
22	A. The manuscript I was waiting for the	22	proper to add the name to get the doctor
23	manuscript to get in press.	23	MS. O'DELL: I think the question
24	Q. And what what document told you that the	24	was confusing, and and he testified to the other
25	manuscript was in press?	25	co-authors and their positions at the university, one
	Page 536		Page 538
1	A. This reproof that I got.	1	of which is is a professor at the medical school.
2	Q. You're talking you're pointing to	2	BY MR. HEGARTY:
3	Exhibit 40?	3	Q. Have you ever prepared a PowerPoint
4	A. February no. February from SAGE. The	4	presentation where you lay out the results of your
5	reproof that I just got, February 7.	5	tests or talk about your manuscript?
6	Q. So your e-mail correspondence	6	A. To whom?
7	A. 48.	7	Q. To anybody.
8	Q. I'm sorry, Exhibit 48?	8	A. Posters is a PowerPoint presentation?
9	A. (Nodding head).     Q. So your e-mail correspondence with Health	9	<ul><li>Q. Well, besides the poster.</li><li>A. Is that considered a</li></ul>
11	Q. So your e-mail correspondence with Health Canada would have come after February 7th?	11	A. Is that considered a     Q. Well, you know what a PowerPoint
12	MS. O'DELL: Object to form.	12	presentation is?
13	THE WITNESS: I can't remember. I	13	A. That's a PowerPoint presentation.
14	really can't remember.	14	Q. Just your poster?
15	BY MR. HEGARTY:	15	A. Yeah.
16	Q. Other than communicating with Health Canada	16	Q. Okay. Have you other than that poster,
17	regarding your manuscript or your test results, since	17	have you ever prepared a multi
18	your last deposition I think it was on the 23rd	18	A. Like an oral talk?
19	or	19	Q. Like an oral talk?
1	A. 22nd.	20	A. Yeah, no.
20	0 22 1 - 61	21	Q. Do you have any current plans to give any
20 21	Q. 22nd of January		
	MS. O'DELL: January 23rd.	22	kind of presentation beyond what we've talked about
21	MS. O'DELL: January 23rd. THE WITNESS: 23rd.	22 23	already in terms of the abstract presentation? Is
21 22	MS. O'DELL: January 23rd.	22	

#### Page 541 Page 539 linked to cancer, cause of cancer. 1 about in this deposition? 1 2 2 A. I'm going to SRI conference in Paris next There is also an inflammation --3 3 month, and I'm going to present this work that you see, inflammatory response, which is a normal response of 4 these abstracts, and Dr. Harper will go to SU and 4 the body, okay, like for example, during ovulation 5 5 present that in March, all of March. there is an oxidative stress and inflammation 6 Q. Is that SRI presentation different than the 6 associated with, but that's a normal physiological 7 other Paris presentation that we talked about? 7 process that is required for ovulation that will 8 A. SRI is in Paris, SU is in Honolulu, and 8 completely correct it when that process is done. 9 they're back to back. That's why I can't be in both. 9 Q. I'm going to jump around a little bit, and 10 10 Q. Any other planned presentations --I'm going to come back to that. But in your 11 manuscript, you report in the Treatment of Cells 11 A. Not yet. 12 Q. -- regarding your tests or your manuscript 12 section on page five --13 that you have not talked about? 13 A. Which exhibit do you have so we can --14 14 Q. Well, in here, it's Exhibit 7 was the A. Not yet. 15 Q. Is there anything in the works you have not 15 original manuscript. 16 talked about? 16 A. Yes, this one? 17 17 A. The works, no. Q. Yes. Q. Dr. Saed, you agree that not all A. Okay. What page? 18 18 19 inflammation is the same, correct? 19 Q. If you go to page five. 20 A. I don't understand the question. 20 Okay. A. 21 Q. Well, is all inflammation, regardless of the 21 Q. You list under -- in the section Treatment 22 type, identical? 22 of Cells as treated with Fisher Scientific or baby 23 23 powder. Do you see where I'm reading? A. It says information --24 MS. O'DELL: Object to form. 24 A. Yes, I do. THE WITNESS: -- in front of me 25 25 Q. What of your data reported in your Page 540 Page 542 1 1 manuscript is of Fisher talc? here. 2 BY MR. HEGARTY: 2 A. None. 3 3 Q. Why did you then list in the Treatment of Q. Inflammation. Cells that the treatment was Fisher talc or baby 4 A. Oh, it says inflammation. It says 4 5 5 information. powder? 6 O. Is all inflammation the same? 6 A. That's a typo, because we've done both, so 7 7 A. In what term you are trying to get me to it's a typo. When we get the proof, we will correct 8 8 that. And I'm aware of that. We discussed that last 9 Q. Well, are there various types of 9 time. 10 inflammation? 10 Q. And how do the results of your tests show 11 A. Yes, of course. 11 that talc can cause chronic inflammation to ovarian 12 Q. Do you agree that inflammation doesn't 12 cells? mean -- strike that. Do you mean that -- do you agree 13 13 A. The fact that it induces inflammation. 14 that inflammation of tissue doesn't mean that that 14 That's -- that's -- that's a great indication 15 tissue will become cancerous? 15 that it is doing something in the body. 16 MS. O'DELL: Object to the form. 16 Q. How long must inflammation last to be 17 THE WITNESS: Okay. Can I explain 17 considered chronic? 18 this? MS. O'DELL: Object to the form. 18 BY MR. HEGARTY: 19 19 THE WITNESS: Okay, yes. So this is 20 O. Yes. 20 invitro studies in cell lines, so to simulate that with 21 A. Okay. So there are two types of 21 what's going invivo, you have to do animal studies. 22 inflammation, okay. Acute inflammation that spike and 22 Which by the way, you asked me, but I misunderstood the 23 come back, and that is not commonly linked with cancer 23 question about if I have -- have I done invivo studies 24 development. And chronic inflammation that stays for a 24 in animals, and I have done many, but not related to 25 long time, and it is lower in magnitude, and that is 25 talc. I just want to correct this on the record.

	Page 543		Page 545
1	BY MR. HEGARTY:	1	Q. These opinions are made to a reasonable
2	Q. You have done many invivo studies	2	degree of scientific certainty, and my question is,
3	A. Yes.	3	what does that part of the sentence mean to you? What
4	Q in animals?	4	does it mean when you say your opinions are to a
5	A. Yes, because I was not understanding your	5	reasonable degree of scientific certainty?
6	invitro cells going to the animals. I have done real	6	A. They are based on my expertise, training,
7	invivo studies where I operated on animals and create	7	experience, knowledge of the literature, all that
8	postoperative adhesions and studied many, many animal	8	stuff.
9	models, and I have published all that.	9	Q. Well, I understand that that's what
10	MR. HEGARTY: Could we go off the	10	follows, but I mean when you say what is the
11	record real quick?	11	meaning of a reasonable degree of scientific
12	THE VIDEOGRAPHER: We're going to go	12	certainty?
13	off the record, the time is 12:56.	13	A. That's what I explained. That's what I
14	(There was a recess taken.)	14	meant. That's how I explained it.
15	THE VIDEOGRAPHER: We're back on the	15	Q. You meant that your opinions are based on my
16	record at 1:22.	16	experience, training and expertise, etcetera?
17	BY MR. HEGARTY:	17	MS. O'DELL: Object to the form.
18	Q. Dr. Saed, you previously worked with your	18	THE WITNESS: My my opinion is
19	consulting firm, UD Biotech, with Michael Diamond; is	19	based on my expertise, training, experience, and
20	that correct?	20	knowledge of literature.
21	A. No, that's not correct.	21	BY MR. HEGARTY:
22	Q. Who is Michael Diamond?	22	Q. And that's what a reasonable degree of
23	A. Michael Diamond was our reproductive	23	scientific certainty means to you?
24	endocrinology chief at Wayne State, and when he was	24	A. Yes.
25	here, we created the company together, but we never did	25	MS. O'DELL: Object to the form.
	Page 544		Page 546
1	anything. So years later he moved to University of	1	BY MR. HEGARTY:
2	Augusta, and when he moved there, he asked to separate	2	Q. If you look at the end of that first
3	from the company. We never did anything together at	3	paragraph, you say, knowledge of the relevant
4	the company.	4	literature and my previous and ongoing research. Do
5	Q. Have you had any discussions with	5	you see that?
6	Dr. Diamond about your tests with talc or your	6	A. I do.
7	manuscript?	7	Q. Do you have any ongoing research with regard
8	A. No.	8	to this subject area?
9	Q. You mentioned your report for this case,	9	A. The talc and the inflammation?
10	which is Exhibit 16. I'm not sure if I've given it	10	Q. Correct.
11	back to you, and I think we have a	11	A. Or the inflammation and cancer, yes, I do.
12	A. Thank you.	12	Q. What is ongoing?
13	Q different number of exhibits here. You	13	A. We are planning to do more work in this.
14	found your report?	14	Q. What work are you planning to do?
15	A. That's the report I think.	15	A. More biological work.
16	Q. If you can go to page 20, please.	16	Q. What type of work?
17	A. Page 20. Sorry, I'm losing my voice. 20,	17	A. Maybe look at animal studies, maybe looking
18	yes.  O In the section Summers of Oninions do you	18	at sequencing of some genes.
19 20	Q. In the section Summary of Opinions, do you see that section?	19 20	Q. How far has that
21	A. I do.	21	<ul><li>A. I'm not sure yet.</li><li>Q. I'm sorry. How far has that progressed?</li></ul>
22	Q. You say, these opinions are made to a	22	A. Not yet.
23	reasonable degree of scientific certainty. What does	23	Q. When you say not yet
24	that mean to you?	24	A. We the ongoing part is just the cell
25	A. Where do you read, please?	25	line, the cell culture part.
	-		

	Page 547		Page 549
1	Q. Do you have plans to do any other strike	1	MR. HEGARTY: All right.
2	that. Do you have any current plans, sitting here	2	THE VIDEOGRAPHER: We're going off
3	today, for other cell studies or tests like you did in	3	the record, the time is 1:28.
4	your manuscript involving tale?	4	(There was a recess taken.)
5	MS. O'DELL: Object to the form.	5	THE VIDEOGRAPHER: We're back on the
6	Would you would you mind repeating the question, or	6	record at 1:31.
7	read it back, please?	7	EXAMINATION BY MS. O'DELL:
8	THE WITNESS: What was the question?	8	Q. Dr. Saed, I have a few questions for you. I
9	BY MR. HEGARTY:	9	think in front of you I put Exhibit 24, which was a
10	Q. Do you have plans to do do you have any	10	copy of your preliminary study that counsel for J & J
11	current plans, sitting here today, for other cell	11	marked previously.
12	studies or tests like you did in your manuscript	12	A. Yes.
13	involving tale?	13	Q. And if you'll turn to the last page of 24.
14	A. Do I have current right now going on in my	14	It should be near the top, 'cause I pulled it out
15	lab right now?	15	previously. Yeah. Is that it? Okay.
16	Q. Either going on in your lab, or that you	16	If you'll turn to the last page of
17	plan to do or give thought to do?	17	the exhibit. Just turn it over, I think, because it's
18	A. Yes, I am.	18	front and back. It's a copy of your poster that
19	Q. What are those?	19	counsel asked you about earlier.
20	A. I'm planning to do more cell lines, and I'm	20	A. Correct.
21	planning to do the transformation assay.	21	Q. And in the results as written on the
22	Q. What's a transformation assay?	22	left-hand side of the poster, is there a
23	A. The one we spent three hours discussing.	23	suggestion that the results are statistically
24 25	Q. The Aim III? A. Yes.	24 25	significant?
25	A. Tes.	45	MR. HEGARTY: Objection, form.
	Page 548		Page 550
1	Q. And how far along are those plans?	1	BY MS. O'DELL:
2	A. Planning. I don't know.	2	Q. Do you report the results as statistically
3	Q. Do you have a timetable for any of those	3	significant?
4	A. Not yet.	4	A. Not as written in the results section,
5	Q those those proposed tests?	5	because it says marked increase. Marked doesn't mean
6	A. Not yet.	6	they are statistically significant necessarily.
7	Q. Have you gone strike that. Do you have	7	Q. You also were asked some questions early on
8	plans beyond the thinking stage for any tests involving	8	in your continued deposition this morning, and and
9	cell lines or invivo studies that involve talc?	9	in regard to the series of questions, you expressed
	A. Other than what I just mentioned?	10	confusion by the question. I think at one point you
10		11	
10 11	Q. Other than what you talked about?	11 12	said there was a mixup. What did you mean by that?
10 11 12	<ul><li>Q. Other than what you talked about?</li><li>A. Not not I don't think of anything</li></ul>	12	said there was a mixup. What did you mean by that?  A. A mixup in the question, because the
10 11 12 13	Q. Other than what you talked about?  A. Not not I don't think of anything right now. I may.	12 13	said there was a mixup. What did you mean by that?  A. A mixup in the question, because the question was a compound question. Each part contradict
10 11 12 13 14	Q. Other than what you talked about? A. Not not I don't think of anything right now. I may. Q. Have you prepared any written proposals	12 13 14	said there was a mixup. What did you mean by that?  A. A mixup in the question, because the question was a compound question. Each part contradict the other.
10 11 12 13 14 15	<ul> <li>Q. Other than what you talked about?</li> <li>A. Not not I don't think of anything right now. I may.</li> <li>Q. Have you prepared any written proposals A. No.</li> </ul>	12 13 14 15	said there was a mixup. What did you mean by that?  A. A mixup in the question, because the question was a compound question. Each part contradict the other.  Q. Did you
10 11 12 13 14 15 16	<ul> <li>Q. Other than what you talked about?</li> <li>A. Not not I don't think of anything right now. I may.</li> <li>Q. Have you prepared any written proposals A. No.</li> <li>Q for additional testing?</li> </ul>	12 13 14	said there was a mixup. What did you mean by that?  A. A mixup in the question, because the question was a compound question. Each part contradict the other.  Q. Did you A. That's my understanding.
10 11 12 13 14 15	<ul> <li>Q. Other than what you talked about?</li> <li>A. Not not I don't think of anything right now. I may.</li> <li>Q. Have you prepared any written proposals A. No.</li> <li>Q for additional testing?</li> <li>A. None.</li> </ul>	12 13 14 15 16	said there was a mixup. What did you mean by that?  A. A mixup in the question, because the question was a compound question. Each part contradict the other.  Q. Did you A. That's my understanding.
10 11 12 13 14 15 16	<ul> <li>Q. Other than what you talked about?</li> <li>A. Not not I don't think of anything right now. I may.</li> <li>Q. Have you prepared any written proposals A. No.</li> <li>Q for additional testing?</li> </ul>	12 13 14 15 16 17	said there was a mixup. What did you mean by that?  A. A mixup in the question, because the question was a compound question. Each part contradict the other.  Q. Did you A. That's my understanding.  Q. Was your was your reference to mixup
10 11 12 13 14 15 16 17	<ul> <li>Q. Other than what you talked about?</li> <li>A. Not not I don't think of anything right now. I may.</li> <li>Q. Have you prepared any written proposals</li> <li>A. No.</li> <li>Q for additional testing?</li> <li>A. None.</li> <li>MS. O'DELL: I think we're at five,</li> <li>Mark.</li> </ul>	12 13 14 15 16 17	said there was a mixup. What did you mean by that?  A. A mixup in the question, because the question was a compound question. Each part contradict the other.  Q. Did you A. That's my understanding. Q. Was your was your reference to mixup related to data in the lab notebook?
10 11 12 13 14 15 16 17 18	<ul> <li>Q. Other than what you talked about?</li> <li>A. Not not I don't think of anything right now. I may.</li> <li>Q. Have you prepared any written proposals</li> <li>A. No.</li> <li>Q for additional testing?</li> <li>A. None.</li> <li>MS. O'DELL: I think we're at five,</li> </ul>	12 13 14 15 16 17 18 19	said there was a mixup. What did you mean by that?  A. A mixup in the question, because the question was a compound question. Each part contradict the other.  Q. Did you A. That's my understanding. Q. Was your was your reference to mixup related to data in the lab notebook?  A. No
10 11 12 13 14 15 16 17 18 19	<ul> <li>Q. Other than what you talked about?</li> <li>A. Not not I don't think of anything</li> <li>right now. I may.</li> <li>Q. Have you prepared any written proposals</li> <li>A. No.</li> <li>Q for additional testing?</li> <li>A. None.</li> <li>MS. O'DELL: I think we're at five,</li> <li>Mark.</li> <li>MR. HEGARTY: Okay. All right.</li> </ul>	12 13 14 15 16 17 18 19 20	said there was a mixup. What did you mean by that?  A. A mixup in the question, because the question was a compound question. Each part contradict the other.  Q. Did you A. That's my understanding. Q. Was your was your reference to mixup related to data in the lab notebook?  A. No  MR. HEGARTY: Objection.
10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>Q. Other than what you talked about?</li> <li>A. Not not I don't think of anything</li> <li>right now. I may.</li> <li>Q. Have you prepared any written proposals</li> <li>A. No.</li> <li>Q for additional testing?</li> <li>A. None.  MS. O'DELL: I think we're at five,</li> <li>Mark.  MR. HEGARTY: Okay. All right.</li> <li>Thank you.</li> </ul>	12 13 14 15 16 17 18 19 20 21	said there was a mixup. What did you mean by that?  A. A mixup in the question, because the question was a compound question. Each part contradict the other.  Q. Did you A. That's my understanding. Q. Was your was your reference to mixup related to data in the lab notebook?  A. No  MR. HEGARTY: Objection.  THE WITNESS: not at all.
10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>Q. Other than what you talked about?</li> <li>A. Not not I don't think of anything</li> <li>right now. I may.</li> <li>Q. Have you prepared any written proposals</li> <li>A. No.</li> <li>Q for additional testing?</li> <li>A. None.  MS. O'DELL: I think we're at five,</li> <li>Mark.  MR. HEGARTY: Okay. All right.</li> <li>Thank you.</li> <li>THE WITNESS: Thank you.</li> </ul>	12 13 14 15 16 17 18 19 20 21	said there was a mixup. What did you mean by that?  A. A mixup in the question, because the question was a compound question. Each part contradict the other.  Q. Did you  A. That's my understanding.  Q. Was your was your reference to mixup related to data in the lab notebook?  A. No  MR. HEGARTY: Objection.  THE WITNESS: not at all.  BY MS. O'DELL:
10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>Q. Other than what you talked about?</li> <li>A. Not not I don't think of anything</li> <li>right now. I may.</li> <li>Q. Have you prepared any written proposals</li> <li>A. No.</li> <li>Q for additional testing?</li> <li>A. None.  MS. O'DELL: I think we're at five,</li> <li>Mark.  MR. HEGARTY: Okay. All right.</li> <li>Thank you.  THE WITNESS: Thank you.  MR. HEGARTY: Give me a second.</li> </ul>	12 13 14 15 16 17 18 19 20 21 22 23	said there was a mixup. What did you mean by that?  A. A mixup in the question, because the question was a compound question. Each part contradict the other.  Q. Did you  A. That's my understanding.  Q. Was your was your reference to mixup related to data in the lab notebook?  A. No  MR. HEGARTY: Objection.  THE WITNESS: not at all.  BY MS. O'DELL:  Q. Let me ask you to turn to what was marked as

	Page 551		Page 553
1	for the data that's reported in your manuscript. Let	1	question?
2	me ask you to turn to page I believe it is 39.	2	A. I do.
3	A. Yes.	3	Q. There was actually a series of questions.
4	Q. And it says I think it's Calculation Data	4	In fact, Aim III does Aim III compose a number of
5	is written in at the top.	5	different types of tests?
6	A. Yes.	6	MR. HEGARTY: Objection, form.
7	Q. Do you see that? And you were asked a	7	THE WITNESS: It does.
8	number of questions about the column that's marked	8	BY MS. O'DELL:
9	Average. Do you recall those questions?	9	Q. And which of the tests listed in Aim III
10	A. Yes.	10	have you completed?
11	Q. And Dr. Saed, who calculates the average and	11	A. We did we did them with our cell lines.
12	the normalized average in in a table like this in	12	We did myeloperoxidase, we did iNOS, and we did we
13	the lab notebook?	13	did caspase-3, activity for apoptosis.
14	A. So all these data were submitted to our	14	Q. Okay. And when you say MPO, what
15	biostatistician, and he analyzed all the statistics.	15	A. Myeloperoxidase, and inducible nitric oxide
16	Q. Do you rely on the biostatistician in terms	16	synthase, and then caspase-3, activity for apoptosis.
17	of the type of data analysis that is performed?	17	Apoptosis.
18	A. I do.	18	Q. And and any suggestion that Johnson &
19	Q. And is he or she, the biostatistician, the	19	Johnson counsel made that these tests were not
20	person that decides the type of calculation that's	20	performed would be incorrect?
21	going to be done and how it is formulated into a	21	MR. HEGARTY: Objection, form.
22	spreadsheet?	22	THE WITNESS: They were performed in
23	A. Correct.	23	our cell lines that we report in the manuscript, yes.
24	Q. And do you defer to the biostatistician for	24	BY MS. O'DELL:
25	that type of contribution?	25	Q. Okay. You were asked about a submission to
	Page 552		Page 554
1	A. Correct.	1	Health Canada. Did you submit the comments, to the
2	Q. Do you have any information that would	2	best of your knowledge, prior to the deadline for doing
3	suggest that the information contained in the columns	3	so?
4	calculated by the biostatistician are incorrect?	4	A. Yes.
5	A. No.	5	Q. Was your when was your manuscript
6	Q. You've been asked a number of questions	6	accepted for publication by SRI approximately?
7	today about documents that have been provided over	7	A. I believe January, around that time.
8	the prior to your initial deposition and and	8	Q. Lastly, you were maybe not lastly, but
9	since that time. Are you aware of any documents in	9	you were asked a series of questions regarding your
10	your possession that have not been produced?	10	report, and specifically, the basis for your opinions.
11	A. I'm not aware.	11	Are your opinions in this case based on the research
12	Q. You were asked questions about a budget that	12	that you conducted and that you have the data for
13	you prepared in September of 2017 that was marked as	13	which you've included in your report and manuscript?
14	Exhibit 44.	14	A. Yes.
15	A. Yes.	15	Q. And are your opinions in this case also
16 17	Q. And it should be near the top.	16	supported by the scientific and medical literature?
17 18	A. I remember it.     Q. And if you'll when you have that in front	17 18	MR. HEGARTY: Objection, form. THE WITNESS: Yes.
18 19	Q. And if you'll when you have that in front of you, Doctor, if you'll turn to page three of the	19	BY MS. O'DELL:
20	budget. And it particularly, you were asked	20	Q. You mentioned that you anticipate doing
21	strike that. Let me start again.	21	continued research in the future. Do you need
22	You were asked a series of questions	22	additional research to support the opinions that you've
23	about Aim III of the budget, and there were some	23	provided in this case?
24	questions asked regarding a particular test that was	24	A. No. The opinion based on the data so far
25	performed in relation to Aim III. Do you recall that	25	collected, which is based on cell lines, is sufficient

	Page 555		Page 557
1	to draw this conclusion	1	MS. O'DELL: to you previously.
2	Q. And and	2	So I don't want the record to be unclear on that.
3	A and we are go ahead.	3	There may be some other things, but but what the
4	Q. No, please, go ahead.	4	doctor has testified to is he has provided everything
5	A. And we are planning to do some more work.	5	in his possession.
6	Q. Okay. What level of confidence do you have	6	REEXAMINATION BY MR. HEGARTY:
7	in the opinions that you've offered in this case?	7	Q. Doctor, if you look at the abstract I'm
8	A. Great confidence.	8	sorry, look at the poster that you had we have been
9	Q. Would it be fair to say that you hold	9	talked about today talking about today.
10	that in your opinion it is far more than, quote, more	10	A. Yes.
11	likely than not that your opinions are supported by	11	Q. Do you have that in front of you?
12	your data and research?	12	A. I have to find it. Yes.
13	MR. HEGARTY: Objection, form.	13	Q. You reported in this poster that treatment
14	THE WITNESS: My conclusion and	14	of 20 micrograms per milliliter of the cells with talc
15	opinion is based on data from my work here, and they	15	showed a marked increase in the anti-oxidant enzymes
16	are supported by it, yes.	16	CAT, SOD-3, GSR, GPX1 and GSTP1, correct, at the
17	BY MS. O'DELL:	17	20 microgram per milliliter level?
18	Q. Last question, Doctor. You were asked a	18	A. I don't see where you're reading.
19	number of questions about invitro models and their	19	Q. Well, I'm not necessarily reading a
20	usefulness in cancer research. Do invitro models	20	particular part, but this poster shows a marked
21	reliably predict the pathogenicity of harmful	21	increase in the enzymes CAT, SOD-3, GST, GPX1 and GSTP1
22	particulates or other carcinogens in humans?	22	at the 20 microgram level, correct?
23	MR. HEGARTY: Objection, form.	23	MS. O'DELL: Object to the form.
24	THE WITNESS: Yes.	24	Where are you reading? Which table are you referring
25	MS. O'DELL: I've got nothing	25	to?
	Page 556		Page 558
1	further.	1	MR. HEGARTY: I'm reading the
2	MR. HEGARTY: Just a few follow-up	2	Results section.
3	questions. First, I just want to put on the record we	3	THE WITNESS: In the Results
_			
4	want to want to request documents that the doctor	4	section, where does it say 20 microgram?
4 5	apparently has not provided. There were abstracts	4 5	
	•	l .	section, where does it say 20 microgram?
5	apparently has not provided. There were abstracts	5	section, where does it say 20 microgram? BY MR. HEGARTY:
5 6	apparently has not provided. There were abstracts mentioned today, there was correspondence mentioned	5 6	section, where does it say 20 microgram? BY MR. HEGARTY: Q. Well, you say that you show increases in talc-treated ovarian cancer cell lines and in normal ovarian cancer cell lines, all compared to their
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5 6 7 8	apparently has not provided. There were abstracts mentioned today, there was correspondence mentioned today that that we hadn't seen.  In particular, there's a cover	5 6 7 8	section, where does it say 20 microgram? BY MR. HEGARTY: Q. Well, you say that you show increases in talc-treated ovarian cancer cell lines and in normal ovarian cancer cell lines, all compared to their
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	- FF0		5.01
	Page 559		Page 561
1	effect of the exposure of talc to the cells, and that	1	Q. Do you have the galley pages yet for your
2	by itself is intriguing. That's the whole objective of	2	your Reproductive Sciences manuscript?
3	this whole work. And if you want details of which one	3	A. Galley? The proof?
4	increased how much, I can't tell you from here. I have	4	Q. The proof.
5	to go back to the data.	5	A. Not yet.
6	Q. So you would have to look at the data? You	6	Q. Are you do you have currently
7	couldn't look at the individual graphs?	7	ongoing strike that. Do you have any ongoing
8	A. Very hard to see this. Very small. Barely I can see it.	8 9	inflammatory studies? In other words, are you doing
10	Q. So you can't tell by looking at the	10	any cell line treatments testing for inflammation currently?
11	20 microgram per milliliter data, for example, SOD-3,	11	MS. O'DELL: Object to form.
12	and see if there was a marked increase in the	12	BY MR. HEGARTY:
13	anti-oxidant SOD-3?	13	Q. Let me strike that. That's a bad example
14	MS. O'DELL: Objection.	14	question. Do you have any current studies looking at
15	THE WITNESS: As compared to	15	inflammation in ovarian cancer?
16	control.	16	MS. O'DELL: Object to form.
17	BY MR. HEGARTY:	17	THE WITNESS: This is the core of
18	Q. Yes.	18	our lab. That's what we do.
19	A. So yeah, it's hard for me to do.	19	BY MR. HEGARTY:
20	Q. Okay. Do you remember your	20	Q. Right. But do you have any current studies
21	biostatistician's name? You were not able to recall	21	ongoing?
22	it.	22	A. Related to talc?
23	A. Steven Goyski something. I can find it.	23	Q. No. Related to inflammation in ovarian
24	Q. Going back to your Aim III in Exhibit 44,	24	cancer?
25	which counsel asked you about. You were asked whether	25	A. Of course.
	Page 560		
	rage 300		Page 562
1		1	
1 2	you had done those tests and some of those tests,	1 2	Q. Okay. How many such studies do you have
1 2 3		1 2 3	
2	you had done those tests and some of those tests, and you said you had done those in your cell lines,	2	Q. Okay. How many such studies do you have going on?
2	you had done those tests and some of those tests, and you said you had done those in your cell lines, correct?	2	<ul><li>Q. Okay. How many such studies do you have going on?</li><li>A. I don't know. I can't remember.</li></ul>
2 3 4	you had done those tests and some of those tests, and you said you had done those in your cell lines, correct?  A. Yes.	2 3 4	<ul> <li>Q. Okay. How many such studies do you have going on?</li> <li>A. I don't know. I can't remember.</li> <li>Q. Can you remember one of them?</li> <li>A. Yeah.</li> <li>Q. Which one can you remember?</li> </ul>
2 3 4 5	you had done those tests and some of those tests, and you said you had done those in your cell lines, correct?  A. Yes.  Q. You did not do those tests in cells	2 3 4 5	<ul> <li>Q. Okay. How many such studies do you have going on?</li> <li>A. I don't know. I can't remember.</li> <li>Q. Can you remember one of them?</li> <li>A. Yeah.</li> <li>Q. Which one can you remember?</li> <li>A. We have identified a new role</li> </ul>
2 3 4 5 6 7 8	you had done those tests and some of those tests, and you said you had done those in your cell lines, correct?  A. Yes.  Q. You did not do those tests in cells suspended in agar at 500 cells per well, and then	2 3 4 5 6 7 8	<ul> <li>Q. Okay. How many such studies do you have going on?</li> <li>A. I don't know. I can't remember.</li> <li>Q. Can you remember one of them?</li> <li>A. Yeah.</li> <li>Q. Which one can you remember?</li> </ul>
2 3 4 5 6 7 8 9	you had done those tests and some of those tests, and you said you had done those in your cell lines, correct?  A. Yes.  Q. You did not do those tests in cells suspended in agar at 500 cells per well, and then incubated in a humidified incubator for 14 to 21 days, correct?  A. There is need to do that.	2 3 4 5 6 7 8	<ul> <li>Q. Okay. How many such studies do you have going on?</li> <li>A. I don't know. I can't remember.</li> <li>Q. Can you remember one of them?</li> <li>A. Yeah.</li> <li>Q. Which one can you remember?</li> <li>A. We have identified a new role myeloperoxidase, which is a key inflammatory marker, and we found that we were the first to report that it</li> </ul>
2 3 4 5 6 7 8 9	you had done those tests and some of those tests, and you said you had done those in your cell lines, correct?  A. Yes.  Q. You did not do those tests in cells suspended in agar at 500 cells per well, and then incubated in a humidified incubator for 14 to 21 days, correct?  A. There is need to do that.  MS. O'DELL: Object. Object to the	2 3 4 5 6 7 8 9	<ul> <li>Q. Okay. How many such studies do you have going on?</li> <li>A. I don't know. I can't remember.</li> <li>Q. Can you remember one of them?</li> <li>A. Yeah.</li> <li>Q. Which one can you remember?</li> <li>A. We have identified a new role myeloperoxidase, which is a key inflammatory marker, and we found that we were the first to report that it is expressed in ovarian cancer cells, which it's not</li> </ul>
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	Page 563		Page 565
1	to do other studies, which I had asked you about,	1	CERTIFICATE OF NOTARY
2	involving talc in cell lines, and you said we are	2	STATE OF MICHIGAN )
3	planning to do these. Who is "we"?	3	) SS
4	A. We, our lab.	4	COUNTY OF OAKLAND )
5	Q. Okay. When you say your lab, who are you	5	I, Jennifer L. Ward, Certified Shorthand Reporter,
6	who are you including in that?	6	a Notary Public in and for the above county and state,
7	A. My lab, my research assistants, my	7	do hereby certify that the above deposition was taken
8	collaborators, my fellows.	8	before me at the time and place hereinbefore set forth;
9	Q. And who are those individuals?	9	that the witness was by me first duly sworn to testify
10	A. Dr. Harper, my Dr. Rong, Florie,	10	to the truth, and nothing but the truth, that the
11	Dr. Morris, myself, and who else can I remember.	11	foregoing questions asked and answers made by the
12	And we have some a guy from Pathology doing some	12	witness were duly recorded by me stenographically and
13	work for us, yes.	13	reduced to computer transcription; that this is a true,
14	Q. And do you know who the guy from Pathology	14	full and correct transcript of my stenographic notes so
15	is?	15	taken; and that I am not related to, nor of counsel to
16	A. Yes. His name I'm really bad with names.	16	either party nor interested in the event of this cause.
17	Do you want his name?	17	ethief party not interested in the event of this cause.
	-		
18	Q. If you can remember it.	18	
19 20	A. I can't remember his name, but he he does	19 20	Jennifer L. Ward, CSR-3717
	the immunofluorescent staining for us. We have several	21	·
21 22	projects ongoing right now in our lab.	22	Notary Public,
23	MR. HEGARTY: That's all questions I	23	Oakland County, Michigan
24	have.  MR. LOCKE: Can I just ask one	24	My Commission expires: 10-27-2019
25	really quick question?	25	wry Commission expires. 10-27-2019
23	reany quick question:	23	
	Page 564		Page 566
1		1	_
1 2	EXAMINATION BY MR. LOCKE:	1 2	Page 566 STATEMENT OF DEPONENT
2	EXAMINATION BY MR. LOCKE: Q. This relates to your Health Canada contact	2	_
2	EXAMINATION BY MR. LOCKE:  Q. This relates to your Health Canada contact that you had recently. When you contacted	2	_
2 3 4	EXAMINATION BY MR. LOCKE:  Q. This relates to your Health Canada contact that you had recently. When you contacted Health Canada, did you inform Health Canada that you	2 3 4	_
2 3 4 5	EXAMINATION BY MR. LOCKE:  Q. This relates to your Health Canada contact that you had recently. When you contacted Health Canada, did you inform Health Canada that you are a litigation consultant?	2 3 4 5	STATEMENT OF DEPONENT
2 3 4 5 6	EXAMINATION BY MR. LOCKE:  Q. This relates to your Health Canada contact that you had recently. When you contacted Health Canada, did you inform Health Canada that you are a litigation consultant?  A. No.	2 3 4 5 6	STATEMENT OF DEPONENT  I have reviewed the above transcript
2 3 4 5 6 7	EXAMINATION BY MR. LOCKE:  Q. This relates to your Health Canada contact that you had recently. When you contacted Health Canada, did you inform Health Canada that you are a litigation consultant?  A. No.  MS. O'DELL: Object to form.	2 3 4 5 6 7	STATEMENT OF DEPONENT  I have reviewed the above transcript and have listed corrections, if any, on the attached
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